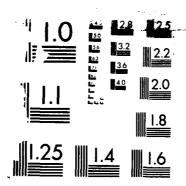
DFYLR/FAA (DEUTSCHE FORSCHUNGS-UND VERSUCHSANSTALT FUER LUFT UND RAUMFAHR. (U) DEUTSCHE FORSCHUNGS- UND VERSUCHSANSTALT FUER LUFT- UND RAUMF. . H DOBRZYNSKI ET AL. 1996 F/G 28/1 AD-A174 979 1/5 UNCLASSIFIED NL



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MICROCOPY RESOLUTION TEST CHART

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DFVLR/FAA **Propeller Noise Tests in the German-Dutch Wind Tunnel DNW**

Appendix III: The Effect of Flow Temperature

DFVLR-IB 129-86/3 FAA Report No. AEE 86-3

AD-A174 979

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U.S Department of Transportation

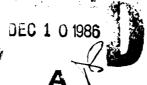
Federal Aviation Administration

Office of Environment and Energy



Deutsche Forschungs-und Versuchsanstalt fűr Luft-und Raumfahrt e.V.

Inst. fűr Entwurfsaerodynamik Abteilung Technische Akustik



by Werner M. Dobrzynski Hanno H. Heller John O. Powers James E Densmore

DATA REPORT ON PROPELLER NOISE TESTS IN THE GERMAN-DUTCH WIND TUNNEL

APPENDIX III

TEST RESULTS ON THE FFFECT OF FLOW TEMPERATURE

b

W. Dobrzynski*, H. Heller*
and

J. Powers**, J. Densmore**

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Table of Content

- 1. Introduction
- 2. Microphone Array
- 3. Environmental and Operational Test-data
- 4. Overall Noise Levels from Direct Analog Analysis
- 5. Acoustic Pressure-time Histories and Narrow-band Spectra
- 6. Propeller Rotational Harmonic Noise- and Overall Noise Levels
- 7. Comments on Data Interpretation



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1. Introduct _n

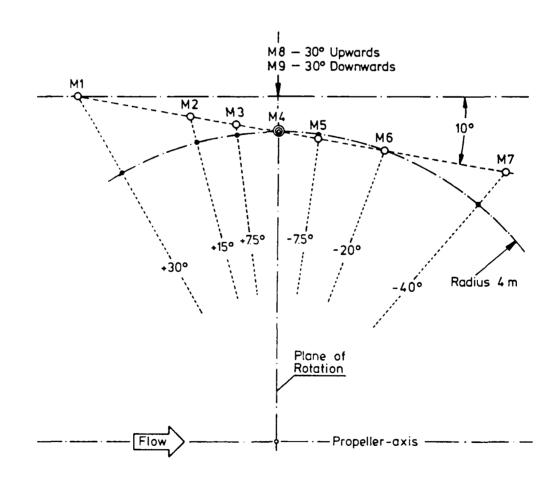
Within a joint effort (and supported by the German Ministry of Research and Technology/BMFT) between the Deutsche Forschungs-und Versuchsanstalt für Luft- und Raumfahrt (DFVLR), the US Federal Aviation Administration (FAA), and the German Ministry of Transportation (BMV), propeller noise tests were conducted in the "Deutsch-Niederländischer Windkanal/German Dutch Wind Tunnel (DNW)" to develop high quality propeller-acoustics data, which could be used by manufacturers for acoustic design purposes, and by researchers to validate established or newly developed theoretical noise prediction methods.

Specifically, the program addressed propeller Mach-number and disc-plane attitude effects as related to noise certification test and evaluation procedures. Changes in Mach-number, as they affect acoustic data adjustments, were explored through independent variation of tunnel flow velocity, propeller rotational speed and ambient air temperature. The tests on the effect of in-flow angle on propeller noise also incorporated the influence of a typical engine nacelle on the flow field and, hence, on the propeller noise.

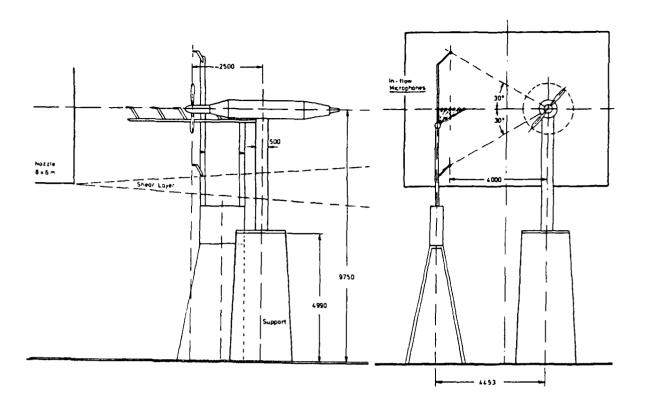
In this Appendix the test results on the effect of flow temperature are documented in terms of pressure-time histories, narrow-band spectra and unweighted as well as A-weighted overall sound pressure levels, together with supplementary information nescessary for further data interpretation. A detailed description of data-acquisition and -reduction techniques is provided by the "Executive Report" to this Appendix.

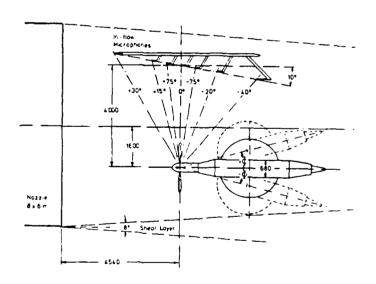
2. Microphone Array

A total of seven in-flow microphones were positioned in the horizontal plane at different streamwise locations corresponding to particular geometric radiation angles from the propeller center. Two additional microphones were positioned in the plane of rotation (4 m lateral distance to the propeller axis) at angles of \pm 30 deg respectively above and below the horizontal plane with reference to the propeller center.



In-flow Microphone Positioning





Schematic Representation of Test-rig Arrangement within the Core-flow Regime of the DNW $8\,x6\,m^2$ Open Test Section

3. Environmental and Operational Test-data

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In the following table(s) the data-point matrix is documented. These table(s) summarise the as-measured data and characteristic propeller operational parameters as calculated from measured data.

HEL. MACHN.	1	0.7959 0.8875 0.9048	0.6859 0.7787 0.8880	0.7809	0.6729 0.7639 0.8758	0.77111	0.6624 0.7516 0.8582
THRUST COEF.	•	0.0193 0.0453 0.0487	0.0615 0.0813 0.0367	0.0198	0.0609 0.0801 0.0364	0.0188	0.0582 0.0779 0.0351
POWER COEF.	,	0.0286 0.0492 0.0516	0.0554 0.0670 0.0410	0.0279	0.0541 0.0652 0.0404	0.0288	0.0526 0.0645 0.0385
ATTACK ANGLE	DEG	-1.155 1.086 1.252	2.941 4.932 0.234	-1.155 1.134	2.910 4.848 0.186	-1.078 1.063	2.785 4.821 0.304
ADV.	•	0.3023 0.2687 0.2663	0.2287 0.2005 0.2680	0.3023 -	0.2292 0.2017 0.2687	0.3012	0.2309 0.2021 0.2670
===	==:	====	====	===	====	===	
FLOW DENS.	KG/CM	1.232	1.236	1.189	1.194 1.190 1.194	1.158	1.154
FLOW PRES.	PASCAL	98930. 98926. 98924.	98720. 98720. 98768.	99441. 99480.	99262. 99090. 98625.	99530. 99570.	99450. 99450. 99460.
FLOW TEMP.	KELVIN	279.5 279.5 279.2	277.8 278.3 279.1	290.3 289.4	288.7 289.3 287.0	297.6 298.2	298.2 298.9 298.6
ATT 1 TUDE ANGLE	DEG	0.0	000	0.0	0000	0.0	000
 _	i				-==-		
THRUST	NEWTON	647 1927 2153	1589. 2736. 1559.	642 1907	1520. 2599. 1500.	593 1770	1402. 2447. 1397.
POWER	Ϋ́	78.2 191.4 213.0	101.8 183.5 159.5	73.6 184.6	95.9 171.9 152.1	73.9	90.2 164.6 140.2
FLOW VEL.	M/S	77.2 77.2 78.0	51.1 51.2 77.0	77.2	51.2 51.5 77.2	76.9	51.6 51.6 76.7
ROT. SPEED	RPM	2400. 2700. 2753.	2100. 2400. 2700.	2400. 2700.	2100. 2400. 2700.	2400. 2700.	2100. 2400. 2700.
PITCH	DEG	20.8 20.8 20.8	19.9	20.8	19.9	20.8	19.9 19.9 19.9
DATA	1	HN-1 HN-2 HN-3	N - N - N - N - N - N - N - N - N - N -	AN-4	BN-4 BN-5 BN-6	1 - N J	K K K K K K K K K K K K K K K K K K K
NO.		33 34 35	36 37 38	67 66	524	188 189	187 186 185

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HEL. MACHN.	•	0.7972	0.6861 0.7791 0.8881	0.7850	0.6762 0.7671 0.8775	0.7710	0.6626
THRUST COEF.	•	0.0211	0.0637 0.0869 0.0387	0.0209	0.0627 0.0868 0.0378	0.0179	0.0598
POWER COEF.	•	0.0308 0.0536	0.0567 0.0717 0.0438	0.0300	0.0553 0.0702 0.0425	0.0279	0.0536
ATTACK ANGLE	DEG	-0.355	3.710 5.537 0.892	-0.303	3.710 5.648 1.034	-0.381	3.647
ADV. RATIO	•	0.3023	0.2292 0.2033 0.2701	0.3015	0.2292 0.2017 0.2680	0.3027	0.2300
. S.	Ω Ω	29	32 23	99	001	55	53 53 54
FLOW DENS.	KG/CM	1.229	200		1.205		
FLOW PRES.	PASCAL	98397. 98355.	98291. 98324. 98344.	99412. 99412.	99124. 99134. 99154.	99532. 99573.	99450.
FLOW TEMP.	KELVIN	278.6 280.2	277.7 278.3 279.3	287.2 288.0	285.9 286.9 285.8	297.9 298.3	297.9 298.4 298.1
ATTITUDE ANGLE	DEG	0.0	0000	0.0	0.00	0.0	000
THRUST	NEWTON	706.	1638. 2913. 1638.	686. 1986.	1579. 2844. 1574.	564.	1442. 2628. 1412.
POWER	K	84.0 206.7	103.8 195.5 169.4	79.9	99.0 187.0 161.7	71.6	91.9
FLOW VEL.	M/S	77.2	51.2 51.9 77.6	77.0	51.2 51.5 77.0	77.3 77.4	51.4 51.9 77.5
ROT. SPEED	RPM	2400. 2700.	2100. 2400. 2700.	2400. 2700.	2100. 2400. 2700.	2400. 2700.	2100. 2400. 2700.
I PITCH	DEG	21.6	20.7	21.6	20.7 20.7 20.7	21.6	20.7
DATA POINT		HC-1 HC-2	10-10-1	AC-4 AC-5	8C-4 8C-5 8C-6	JC-1 JC-2	X X X O C C 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
NO.	1	39 40	422 433	80 8 1	73 72 70	193 194	192 191 190

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4. Overall Noise Levels from Direct Analog Analysis

The following tables provide unweighted (OASPL) and A-weighted $(L_{\rm A})$ overall sound pressure levels from quick-look analog data-analysis of measured data for all data-points and microphone positions respectively. Level-numbers which are identified with an asterix are "disturbed data" and should not be interpreted.

TEMPERATURE EFFECT, ROUND-TIP PROP.

DNW PROPELLER NOISE TEST

Run	Data		<u> </u>			In-Flow	w Noise	Level			
No.	Point		M1	M2	м3	M4	M5	M6	M7	м8	M9
						1		i]
33	HN-1	$L_{\Lambda}-dB(A)$		110.8*	108.1	109.8*	108.5	1	125.0*	1	
		OASPL-dB		127.6*		121.7*			137.3*		
34	HN-2	L_{A} -dB(A)	116.0*		122.0	122.3	120.7	118.1		121.2	
		OASPL-dB	123.3*	130.0*		126.6	125.6	126.3	137.3*	1	
35	HN-3	$L_A-dB(A)$	118.9*	123.3	125.8	126.0	124.1		:124.4*		
		OASPL-dB	126.5*	129.6*	128.0	129.3	127.9		136.6*	129.9	
]				!		} !			!	
36	IN-1	$L_A - dB(A)$		94.7	96.8	97.8	98.8		L	102.7*	
		oaspl-db		108.8	110.0	111.6	112.7			117.2*	
37	IN-2	$L_{\Delta}-dB(A)$	i	105.5	108.1	109.2	109.5		114.3*		
	ļ	OASPL-dB		114.1	116.6	118.8	120.1			119.4*	
38	IN-3	$L_A-dB(A)$	116.9*		121.7	122.3	120.3		124.2*		
	-	OASPL-dB	125.6*	129.1*	124.9	126.9*	124.9		137.0*	128.2	
						107.0	107.6		104 04	160 04	
67	AN-4	$L_A-dB(A)$		107.4*		107.0	107.6			108.3*	
		OASPL-dr		121.0*		118.2*	1		138.0*		124.8*
66	AN-5	$L_A - dB(A)$		119.1*	1	119.8	118.7		123.5*	l .	118.6
		OASPL-dB	120.1*	127.9*	123.2	124.7	124.2		137.3*	126.0*	126.5*
54	BN-4	$L_A - dP(A)$	90.2	93.5	94.8	96.0	96.5		97.9*	101.0*	97.2
,	'	OASPL-dB	4	109.3*	ľ	110.1	111.8		111.9*		111.3
53	BN-5	$L_A-dB(A)$		103.4	106.3	106.5	107.8			106.4*	106.1
<i>J</i> J	J., 3	OASPL-dB	108.6	113.9*	1	116.6	118.6		117.1*		116.6
51	BN-6	$L_A-dB(A)$		119.3*	1	119.4	118.4		114.5*		118.9
J.	, , , , , , , , , , , , , , , , , , ,	OASPL-dB		127.6*		123.9	123.5		. ,	125.2*	126.6
		ONDI B CB	120.7	12/.0	:	123.7	123.3		, 50.0	123.2	120.0
188	JN-1	$L_{\bullet}-dB(A)$	100.1	107.0*	105.7	110.6	113.2*		123.5*	106.3	111.4*
		OASPL-dB	112.3	121.2	116.4	119.9*	123.0		126.5*	123.3	126.0*
189	JN-2	$L_A - dB(A)$	107.5	116.3	117.3	118.6	118.6		124.3*	116.7	117.7
		CASPL-dB	116.5	125.0*	121.9	124.1	125.7		137.4*	124.9*	126.8*
		- ID (4)	00.5			05.01	06.1			20.21	6 16 6
187	KN-1	LdB(A)	90.5	, ,,,,	94.0	95.2*	96.4		101.0*		96.6
		OASPL-dB		112.8*		109.6	111.6*		114.9*		111.3*
186	KN-2	L _A -dR(A)			104.4	105.7	106.4	97.3	105.6*		104.9
	_	OASPL-dB	1	114.2*		116.4	118.0	110.0	119.5*		116.1*
i 85	KN-3	$L_A - dB(A)$	1	116.8*		118.0	117.8*		125.5*		117.0
		OASPL-dB	116.0	125.4*	121.4	123.6	125.4*	120.1	136.9*	123.4	126.6*
4777	lin!!		!		<u> </u>	1		·			

*Higher "R" values

Linear- and A-weighted Overall Noise Levels from Analog Data-analysis

TEMPERATURE EFFECT, SQUARE-TIP PROP.

DNW PROPELLER NOISE TEST

Run	Data					In-Flor	w Noise	Level			
No.	Point		Ml	M2	м3	M4	M5	M6	M7	M8	M9
						Ī	 				1
39	HC-1	$L_{A}-dB(A)$		114.1*		113.2	111.7		124.3*		
		OASPL-dB		124.5*		122.1*			137.0*		
40	HC-2	$L_A - dB(A)$	119.2*		128.5	128.8	126.5		123.0*		
		oaspl-de	126.7*	132.6*	130.2	130.9	129.3		135.5*	130.8	
41	IC-1	LdB(A)	93.0	97.4	99.3	99.7	100.5		115.8*	103.8	
		OASPL-dB	105.8	110.3	111.5	112.7	113.6			117.4*	
42	IC-2	$L_A-dB(A)$	102.9	109.0	111.6	112.7	112.6		114.4*		
		OASPL-dB	112.9	116.4	118.6	120.5	121.5		128.9*		
43	IC-3	$L_A-dB(A)$	119.2*		128.3	128.6	126.0		123.9*		
		OASPL-dB	127.7*	Į .		130.5	128.6		136.1	130.6	
80	AC-4	L,-dB(A)	110 64	109.9*	110 5	111.2	111.0	116.6*	121.0*	110 6	110.6
60	AC-4	OASPL-dB		121.7*		111.2	120.0	125.5*			125.7*
81	AC-5	$L_A - dB(A)$	115.0*		126.0	126.3	124.5	121.9	121.6*		125.7
61	AU~3	CASPL-dB		130.7*		128.5	127.9	121.9	134.5*		129.4
		UASPL-UB	122.54	130.7~	120.1	120.5	127.9	120.0	132,3"	129.0	129.4
73	BC-4	$L_{A}-dB(A)$	91.7	96.9		98.7	99.1		95.7*	100.9*	99.6
		OASPL-dB	104.8	111.6*		111.8	113.0		109.7*	115.1*	112.4
72	BC-5	$L_A - dB(A)$	101.3	107.7		110.7	111.4		100.2*	109.9	109.9
		OASPL-dB	111.8	116.1		118.8	120.4		115.6*	119.2	118.2
70	BC-6	$L_{\Lambda}-dB(A)$	116.0*	124.1	125.9	126.2	124.5		121.5*	124.5	125.3
		OASPL-dB	124.2*	129.2*	128.0	128.5	127.3		134.6*	128.5	129.2
193	JC-1	L,-dB(A)	101.5	109.0*	109.0	112.3	115.2*		124.2	108.5	112.1*
		OASPL-dB	113.0	121.9	117.3*	120.6	125.0*		137.1*		
194	JC-2	L,-dB(A)	111.5	121.6*		123.2	122.4			121.8	121.8
'		CASPL-dB	118.7	127.1*	125.5	126.9	128.1*			127.0	128.0
			•					.		· • •	,
192	KC-1	$L_{\Lambda}-dB(A)$	91.5	95.5	95.8	97.2	97.7	94.8	99.0*	99.0*	97.5
		0ÂSPL-dB	103.6	111.5*	108.9	110.6	112.2	111.4	110.8*	111.8	111.6
191	KC-2	l_{Λ} -DB(A)	99.6	105.8	108.0	108.7	109.1	106.0	102.2*	108.0	108.1
		OASPL-dB	111.1	115.5*	116.4	117.9	119.1	118.6	115.9*	116.7	117.2
190	KC-3	$L_A - dB(A)$	111.5	120.6	122.5	122.9	122.1	114.9	124.5*	121.4	121.5
		OASPL-dB	118.5	126.9*	125.3	126.6	127.7	121.8	136.5*	126.5	127.7*
			<u></u>	<u></u>							
*U10	har libli	values									

^{*}Higher "R" values

Linear- and A-weighted Overall Noise Levels from Analog Data-analysis

5. Acoustic Pressure-time Histories and Narrow-band Spectra

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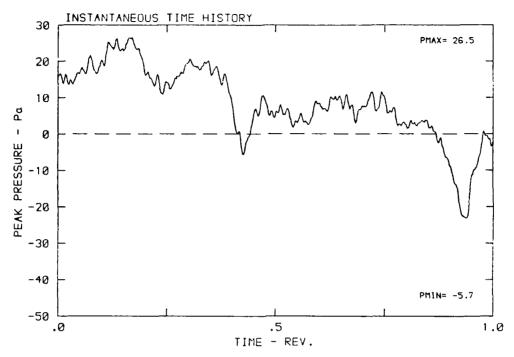
Acoustic data as presented in this section have been derived from a computer analysis of digitized analog tape-readings. For each data-point and microphone position respectively the data were processed and are presented in two different ways:

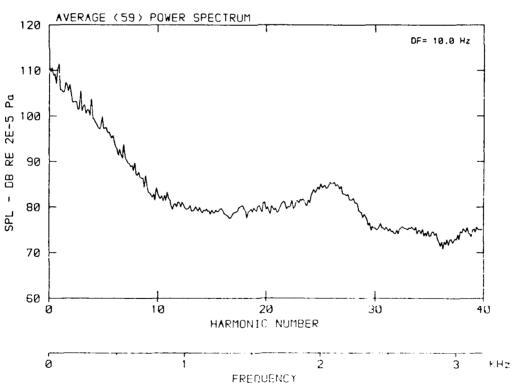
- a) A single instantaneous pressure-time history is presented and labeled "Instantaneous Time History" together with a power spectrum which had been calculated as an energy average of individual power spectra corresponding to a certain number of instantaneous pressure-time histories. This spectrum is labeled "Average (xx) Power Spectrum". The "xx" in the lable denotes the number of time histories averaged in that particular spectrum.
- b) A certain number of instantaneous pressure-time histories is averaged in the time-domain and the resulting pressure averaged time-history is labeled "Average (xx) Time History". The "xx" in the label denotes the number of averaged instantaneous time-histories.

The value of ΔP in the brackets behind this label denotes the maximum peak-to-peak pressure amplitude difference in %, when referenced to the minimum peak-to-peak pressure amplitude difference as detected in the "xx" instantaneous time histories. The magnitude of ΔP can be taken as indicator to judge the stationarity (quality) of the respective data-record. If the value of ΔP is in excess of 496% respective data are marked with a triple star (***) to indicate that the data are heavily distorted.

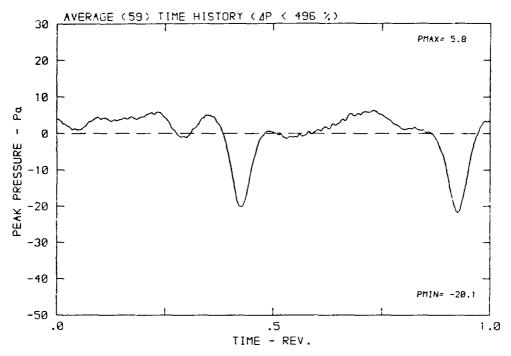
From the pressure-averaged time-history a pressure level spectrum is calculated and labeled "Power Spectrum of Averaged Time History".

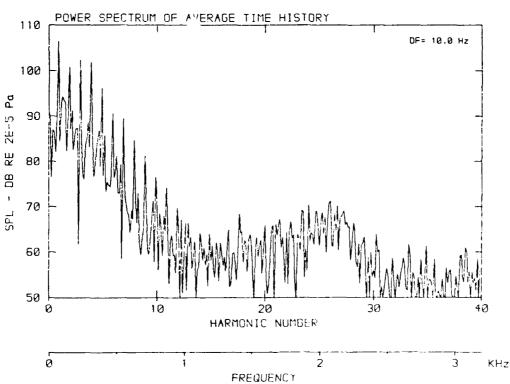
 $β: 20.8^{\circ}$ MH: .7959 n: 2400 rpm ν/u: .302 $φ: .0^{\circ}$ T: 279.5 K



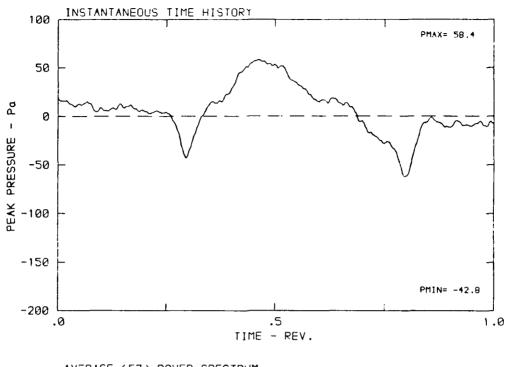


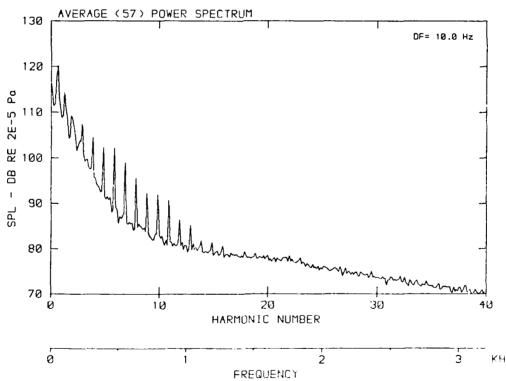
 $\beta\colon 20.8^{\circ}$ MH: .7959 n: 2400 rpm v/u: .302 $\varphi\colon .0^{\circ}$ T: 279.5 K



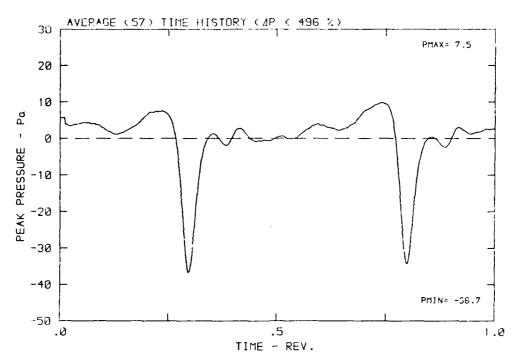


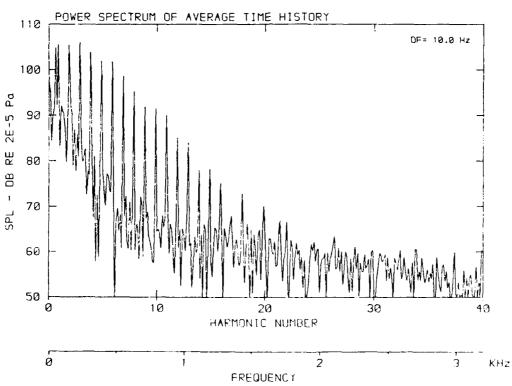
β: 20.8° MH: .7959 n: 2400 rpm ν/u: .302 φ: .0° T: 279.5 K



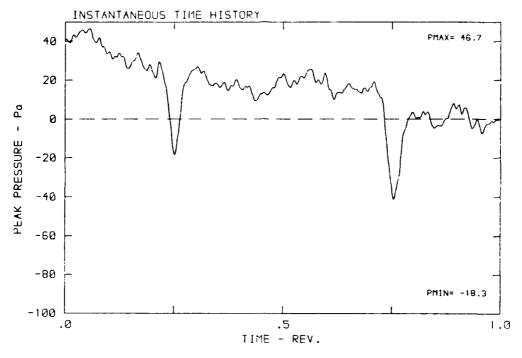


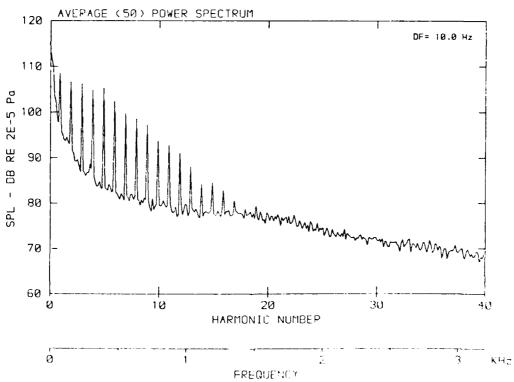
 β : 20.8° MH: .7959 n: 2400 rpm v/u: .302 ϕ : .0° T: 279.5 K



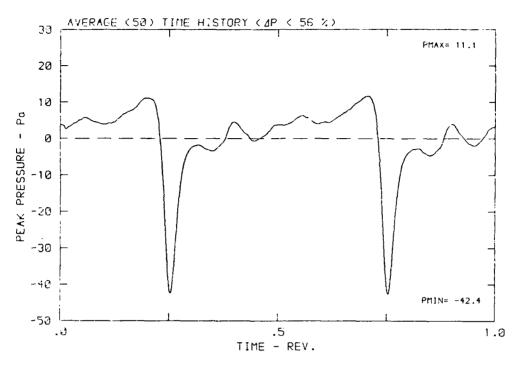


 $\beta\colon 20.8^{\circ}$ MH: .7959 n: 2400 rpm v/u: .302 $\varphi\colon .0^{\circ}$ I: 279.5 k

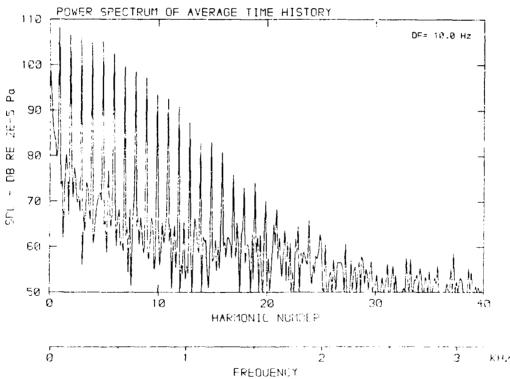




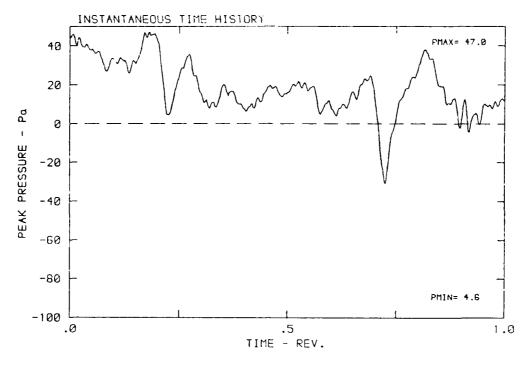
 $\beta\colon 20.8^{\circ}$ MH: .7959 n: 2400 rpm v/u: .302 $\varphi\colon .0^{\circ}$ T: 279.5 K

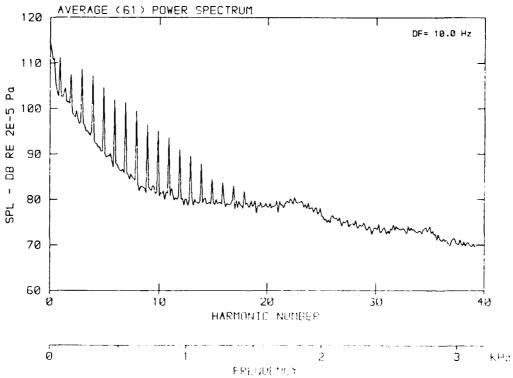


COOL CARACTER STOCKES CONTRACT CONTRACT

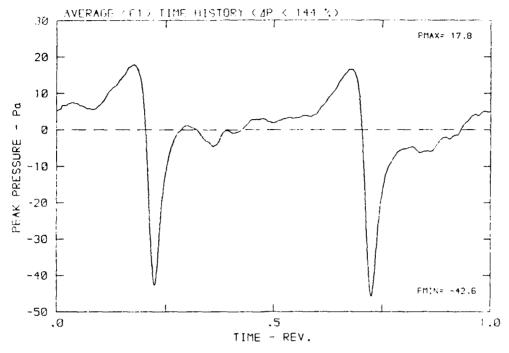


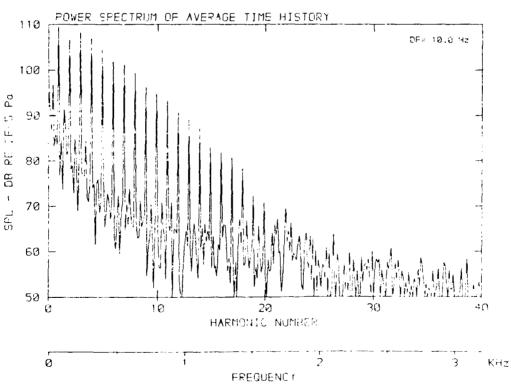
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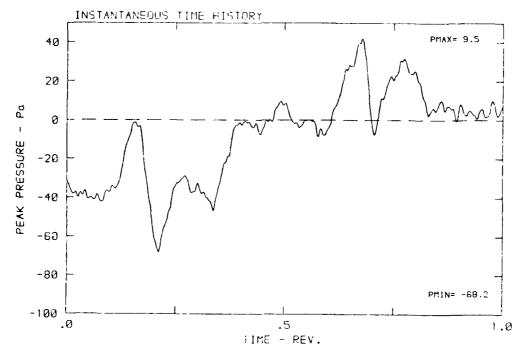


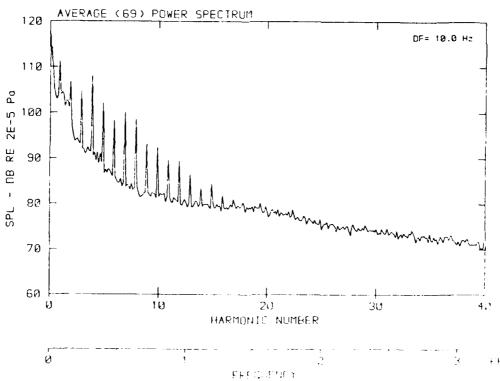
 $\beta: 20.8^{\circ}$ MH: .7959 n: 2400 npm v/u: .302 $\psi: .0^{\circ}$ T: 279.5 K



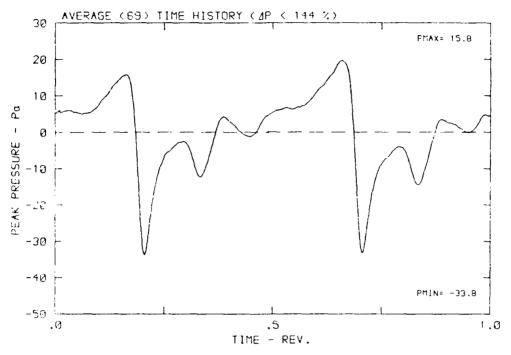


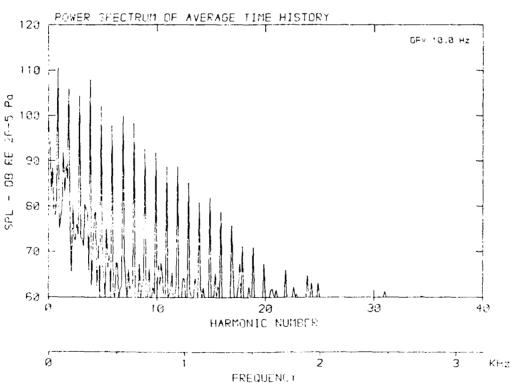
β: 20.8° MH: .7959 n: 2400 rph - vzu: .342 φ: .0° T: /79.5 k





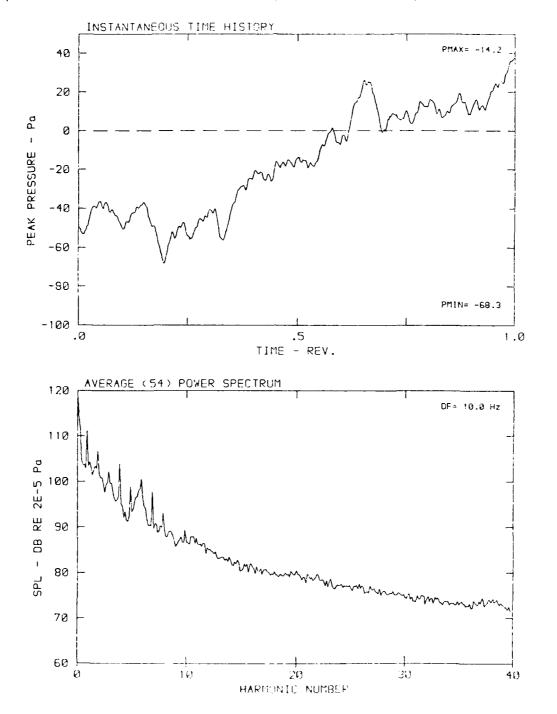
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DATA POINT: HM-1 PUN: 50 MP:

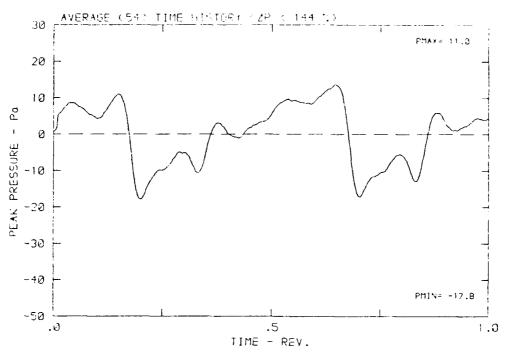
β: 20.8° MH: .7959 n: 2400 npm - v/u: .300 - φ: .0° - T: 279.3

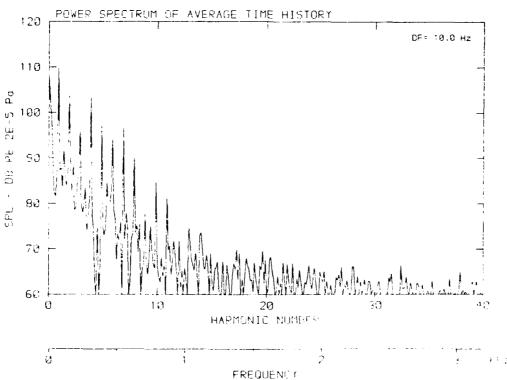


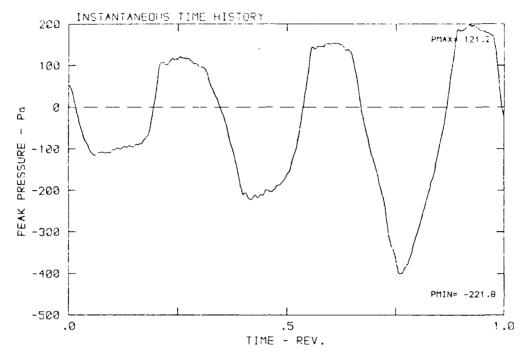
FERGUEY, Y

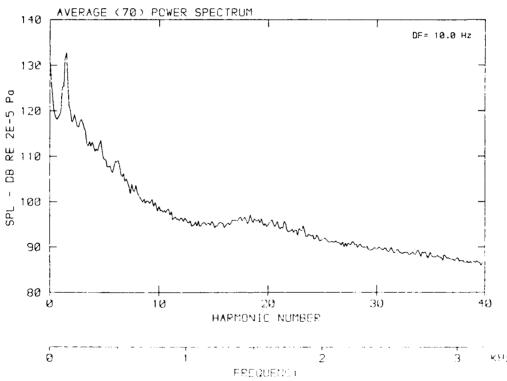
K342

β: 20.8° MH: .7959 n: 2400 npm v/u: .302 ψ: .00 T: 279.5 k

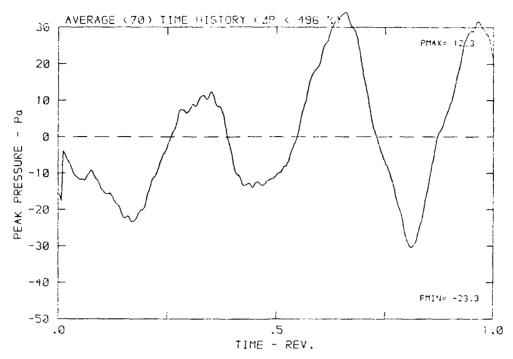


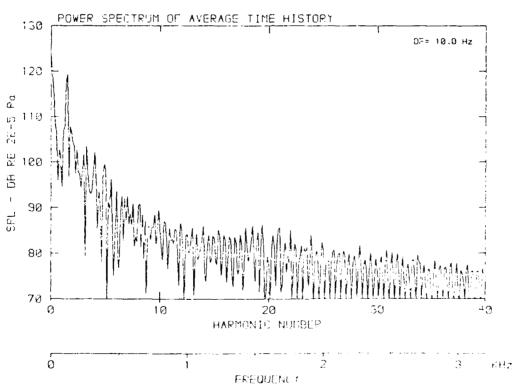




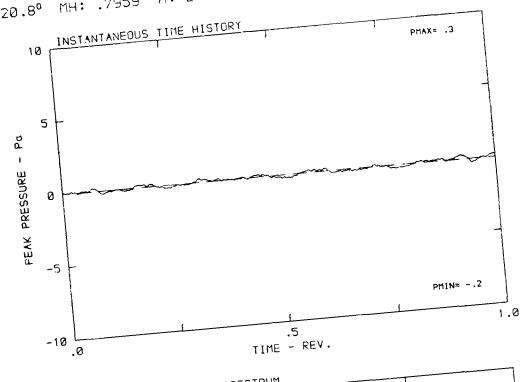


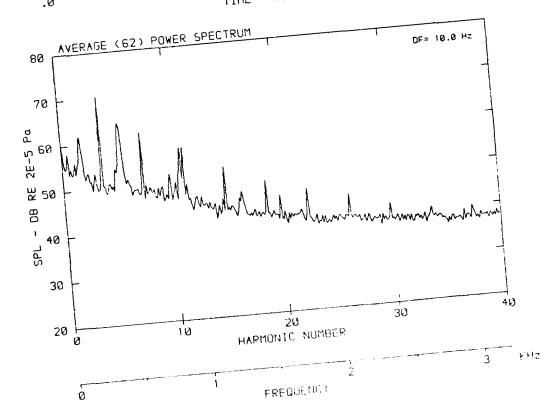
β: 20.8° MH: .7959 n: 2400 npm v/u: .302 φ: .0° T: 279.5 k



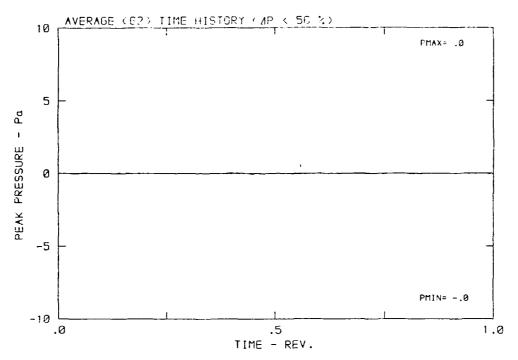


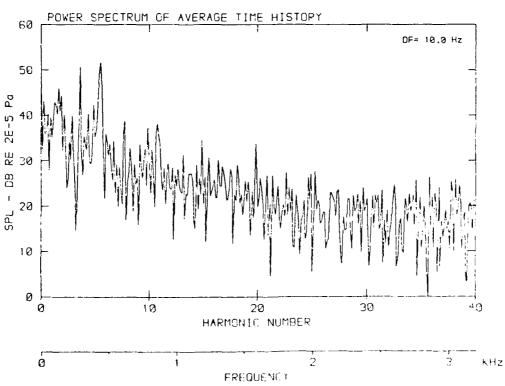
MH: .7959 n: 2400 rpm $\beta: 20.8^{\circ}$





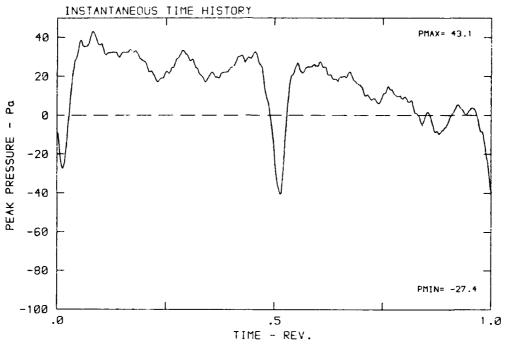
 β : 20.8° MH: .7959 n: 2400 rpm V/u: .302 ϕ : .0° T: 279.5 K

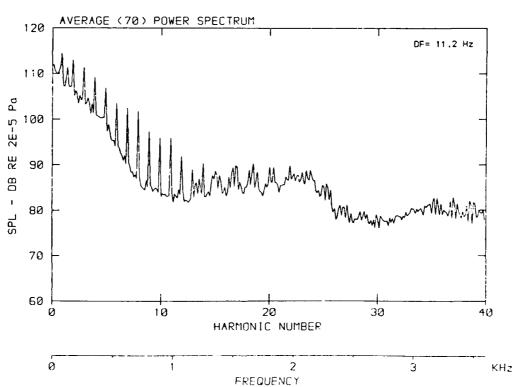




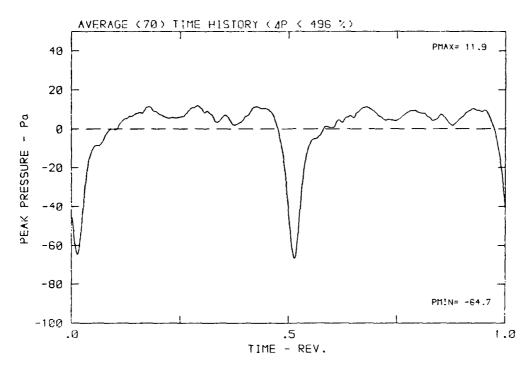
CONTRACTOR SECTIONS SECTIONS OF THE SECTION OF THE

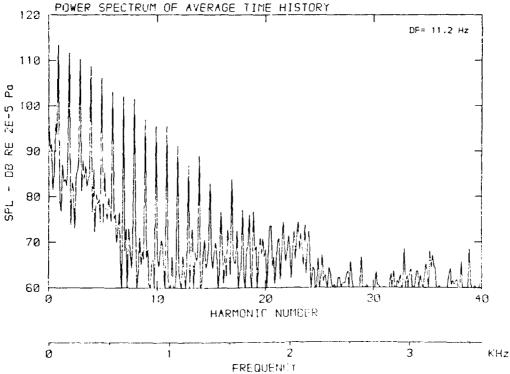
 β : 20.8° MH: .8875 n: 2700 npm v/u: .269 ϕ : .0° T: 279.5 K



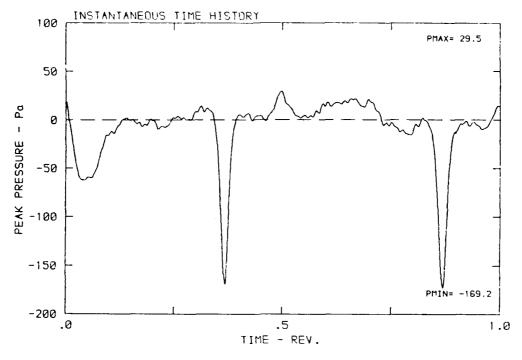


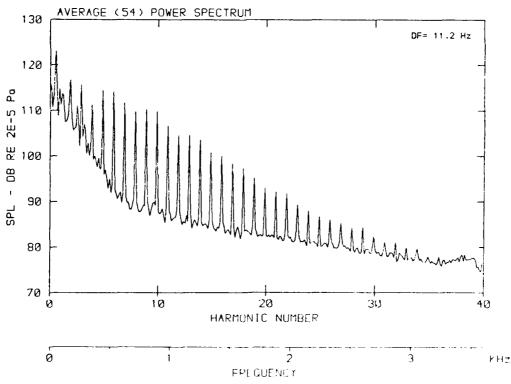
 $\beta\colon 20.8^{\circ}$ MH: .8875 n: 2700 rpm v/u: .269 $\varphi\colon .0^{\circ}$ T: 279.5 K



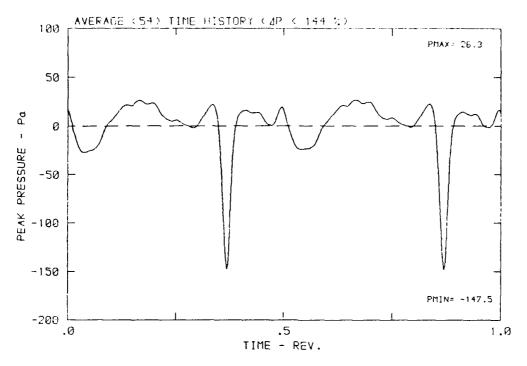


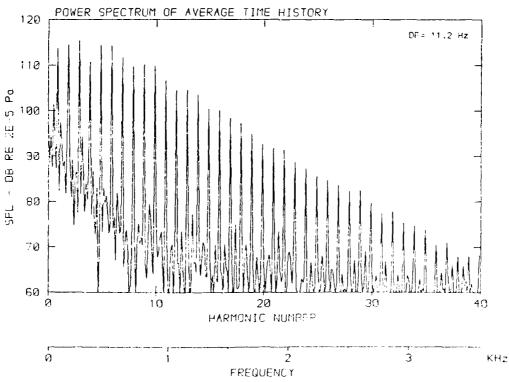
β: 20.8° MH: .8875 h: 2700 npm v/u: .269 φ: .0° T: 279.5 k



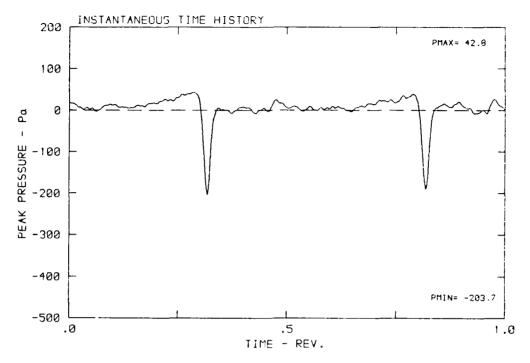


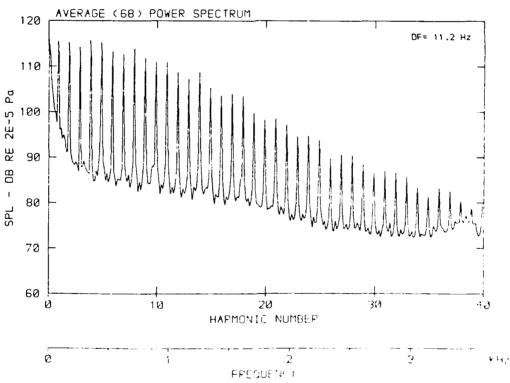
 $\beta: 20.8^{\circ}$ MH: .8875 n: 2700 npm v/u: .269 $\phi: .0^{\circ}$ T: 279.5 K



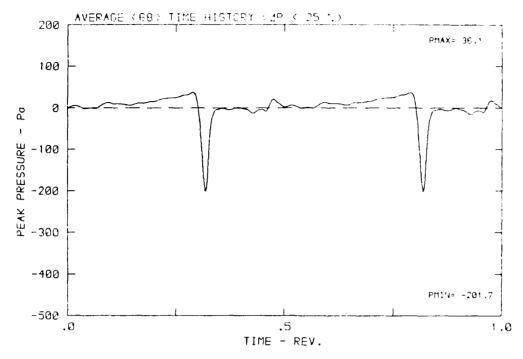


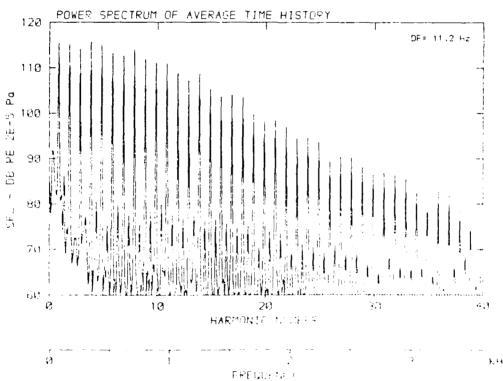
 β : 20.8° MH: .8875 n: 2780 npm v/u: .289 ϕ : .9° 1: 179.5



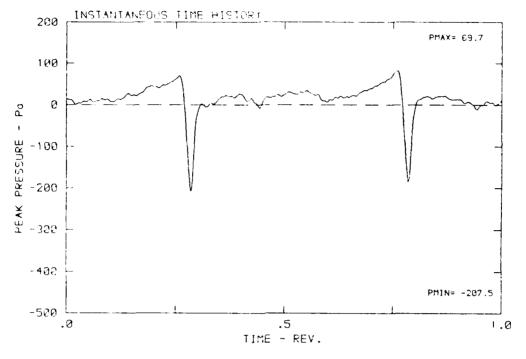


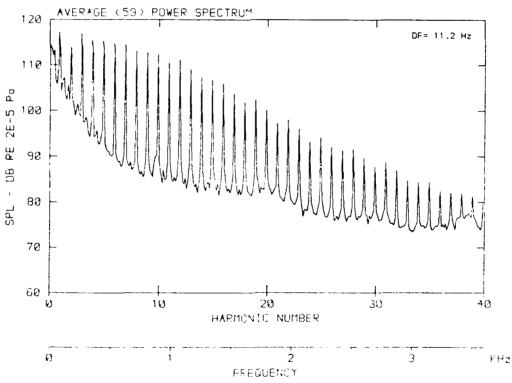
 β : 20.8° MH: .8875 n: 2700 rpm v/u: .269 ϕ : .0° T: 279.5 ϕ



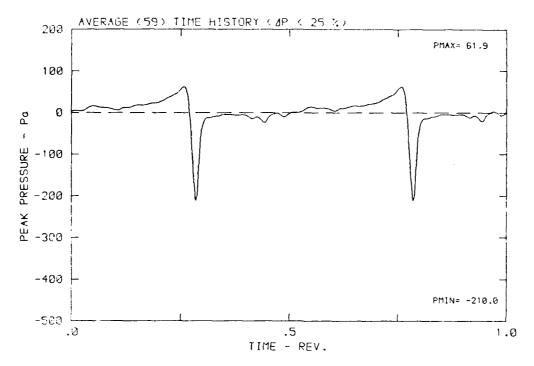


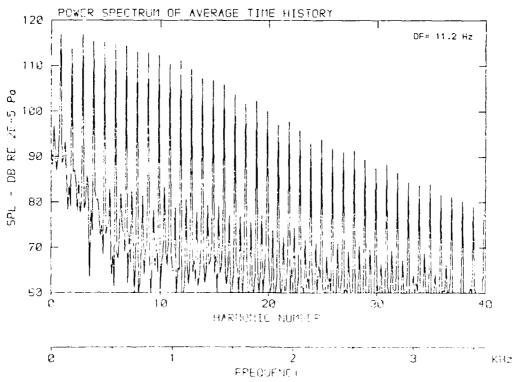
 $β: 20.8^{\circ}$ NH: .8875 n: 2763 rpm γ/ω: .260 φ: .93 1: 279.0 ϵ



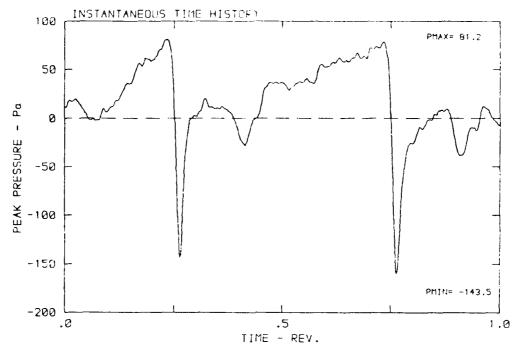


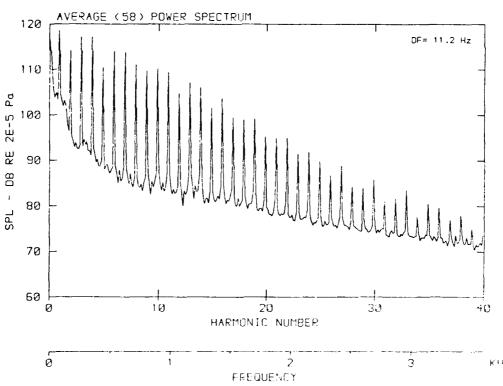
β: 20.8° MH: .8875 n: 2700 rpm v/u: .269 φ: .0° T: 279.5 k



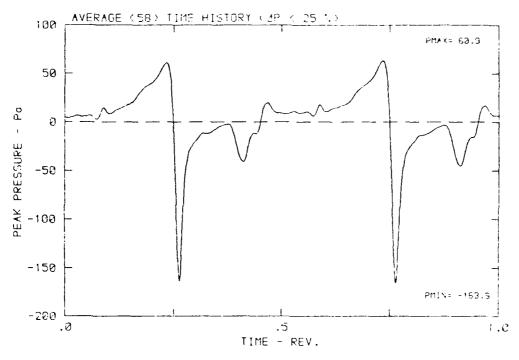


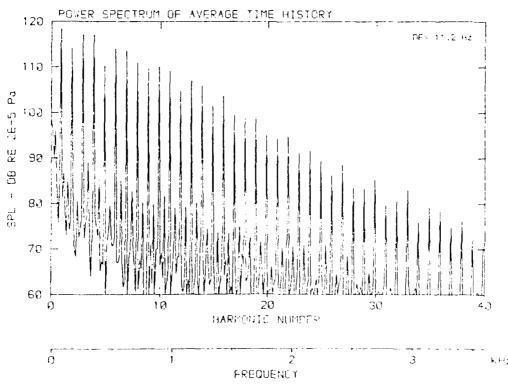
β: 20.8° MH: .8875 n: 2702 r; m γ/u: .253 φ: .0° T: 279.13



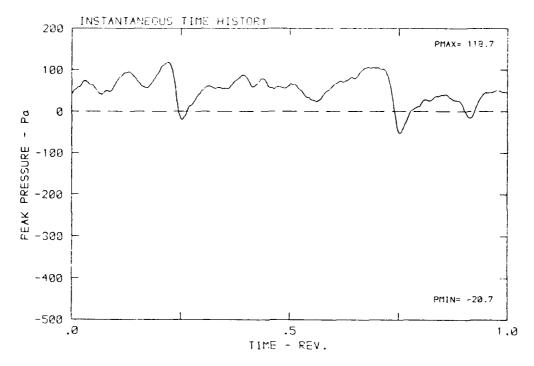


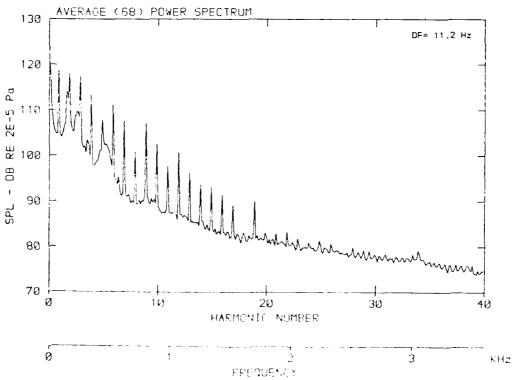
β: 20.8° MH: .8875 n: 2700 npm γ/u: .269 φ: .0° T: 279.5 K



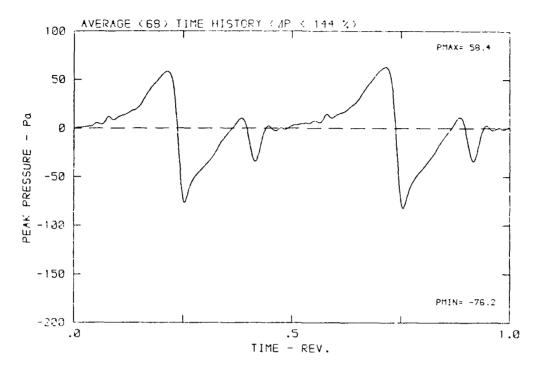


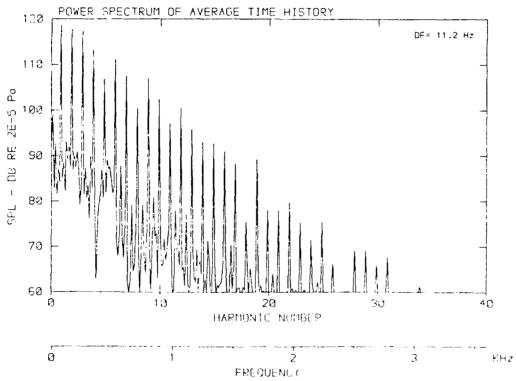
β: 20.8° MH: .8875 n: 2788 rpm - v/u: .269 φ: .0° T: 279.5 K



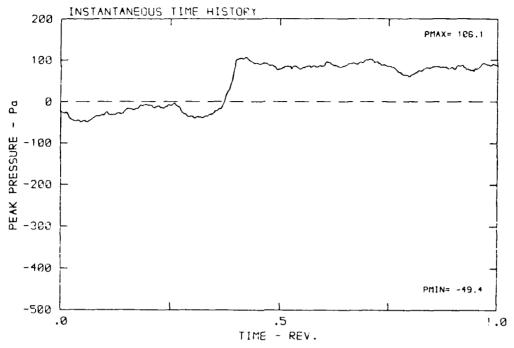


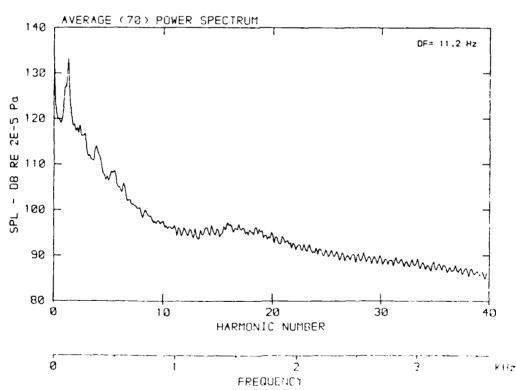
 β : 20.8° MH: .8875 n: 2700 rpm v/u: .269 ϕ : .0° T: 279.5 k



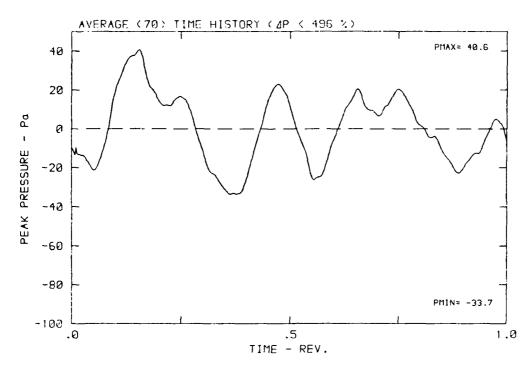


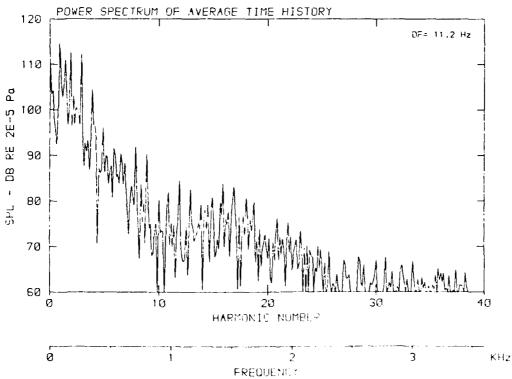
β: 20.8° MH: .8875 n: 2703 rpm v/u: .289 φ: .0° T: 279.5 κ



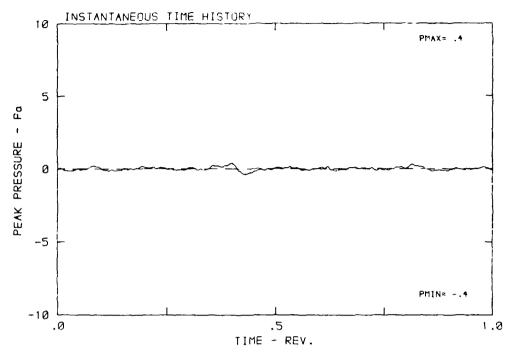


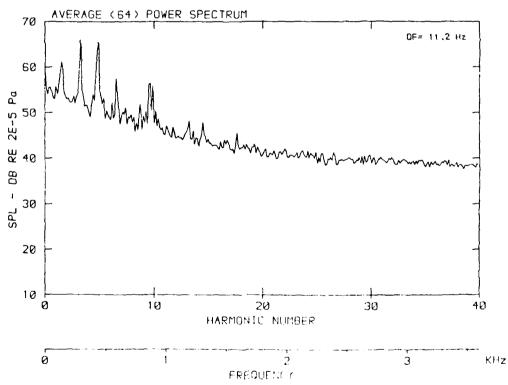
 β : 20.8° MH: .8875 n: 2700 rpm v/u: .269 ϕ : .0° T: 279.5 K



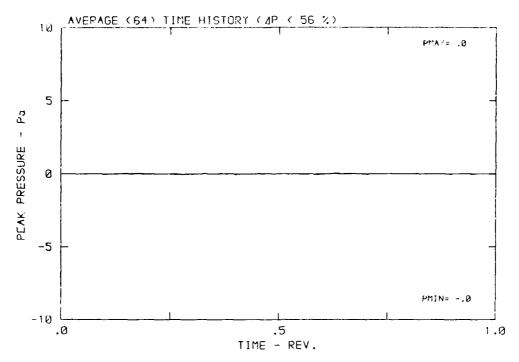


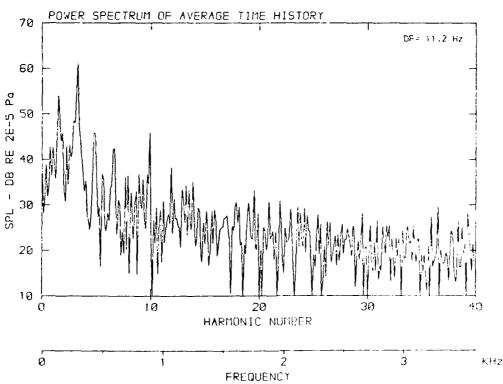
 β : 20.8° MH: .8875 n: 2700 rpm v/u: .269 ϕ : .0° T: 279.5 K



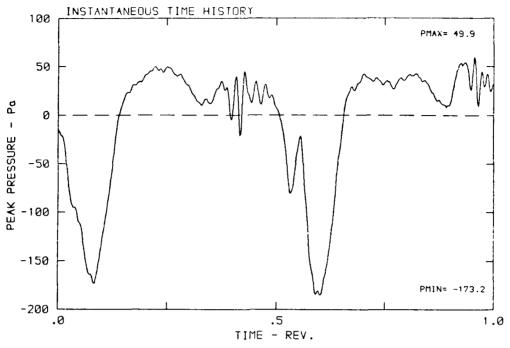


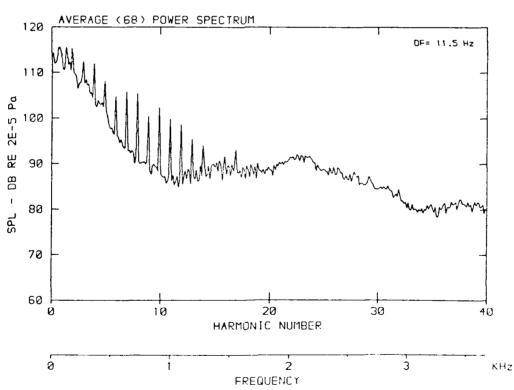
 β : 20.8° MH: .8875 n: 2700 rpm v/u: .269 ϕ : .0° T: 279.5 K



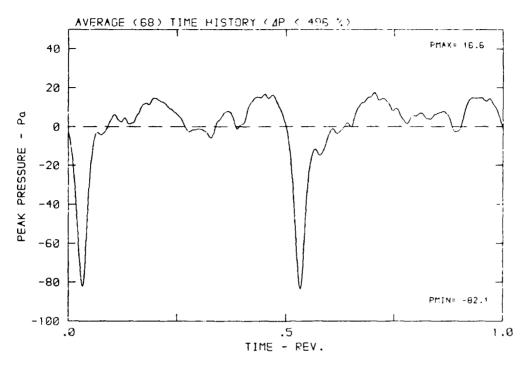


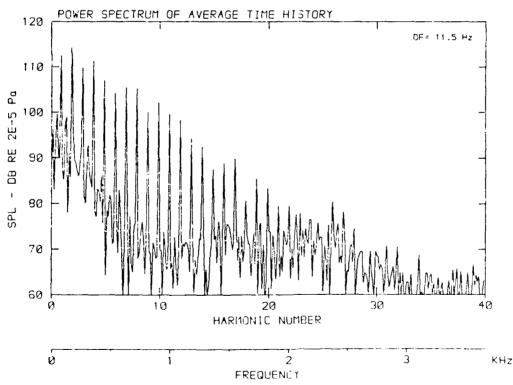
 $β: 20.8^{\circ}$ MH: .9048 n: 2753 npm ν/u: .266 ψ: .0° T: 279.2 K



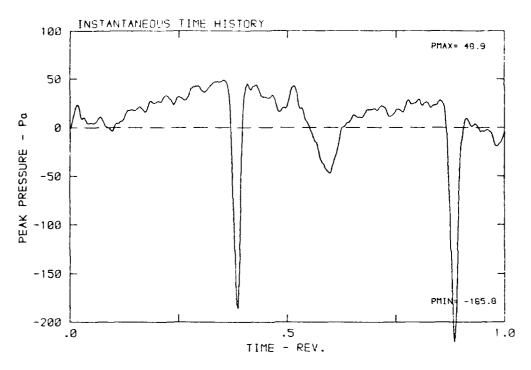


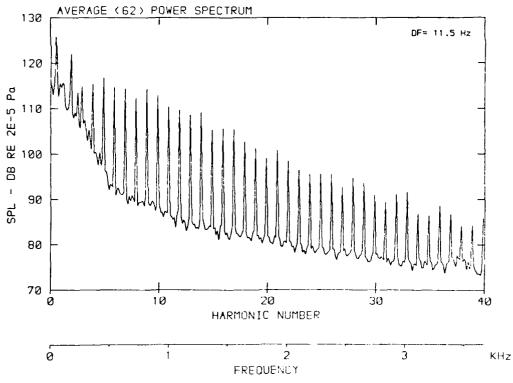
 β : 20.8° MH: .9048 n: 2753 rpm v/u: .266 ϕ : .0° T: 279.2 K



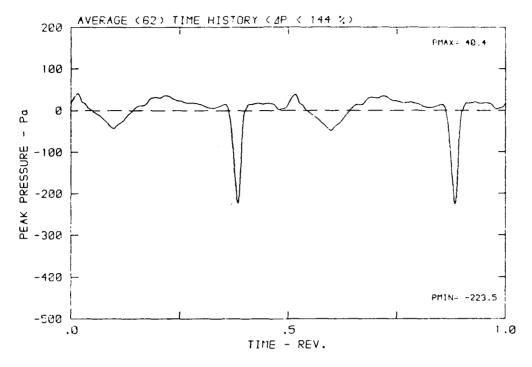


β: 20.8° MH: .9048 n: 2753 npm - v/u: .266 φ: .0° T: 279.2 κ

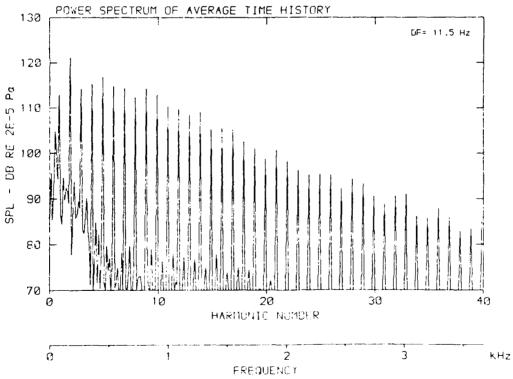




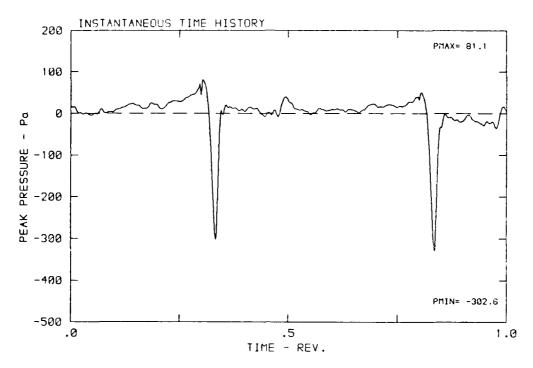
 β : 20.8° MH: .9048 n: 2753 rpm v/u: .266 ϕ : .0° T: 279.2 K

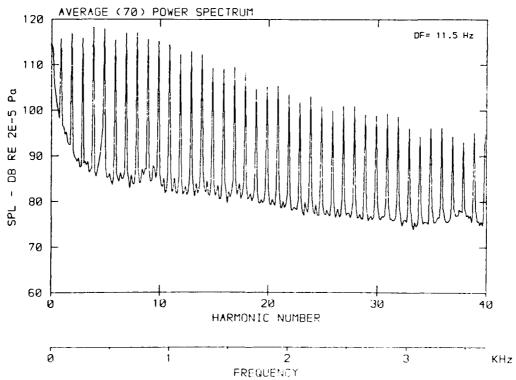


STATE STANDARD RECOGNES RELEASED BY CONTROL BUSINESS

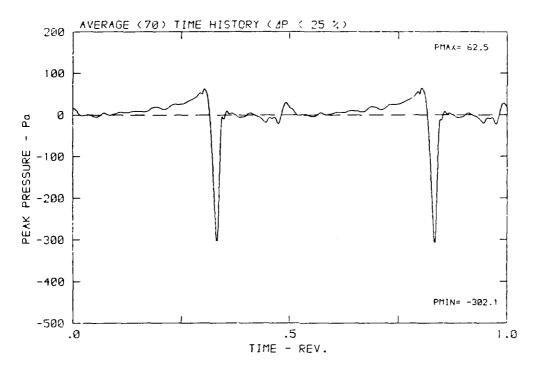


 $β: 20.8^{\circ}$ MH: .9048 n: 2753 rpm v/u: .266 $φ: .0^{\circ}$ T: 279.2 K

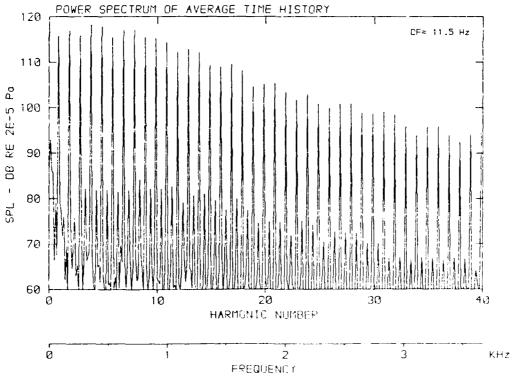




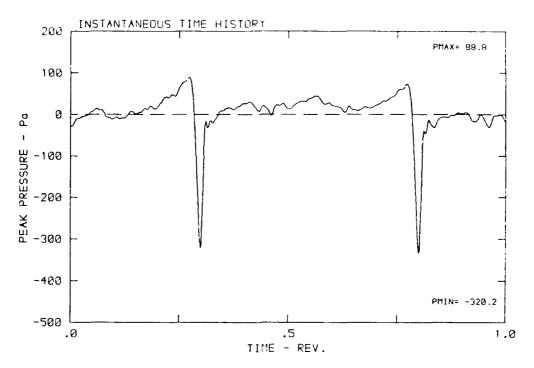
 β : 20.8° MH: .9048 n: 2753 rpm v/u: .266 ϕ : .0° T: 279.2 K

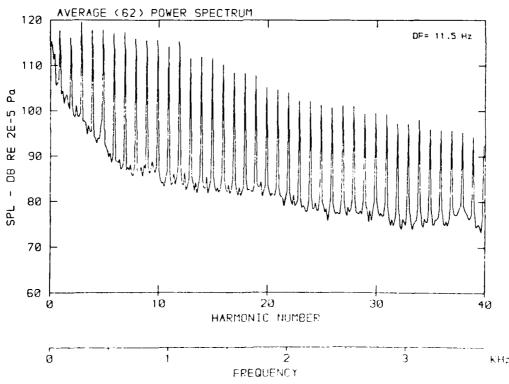


SAME SAMASAN MARAKAN MARAKAN MARAKAN KANSANSAN

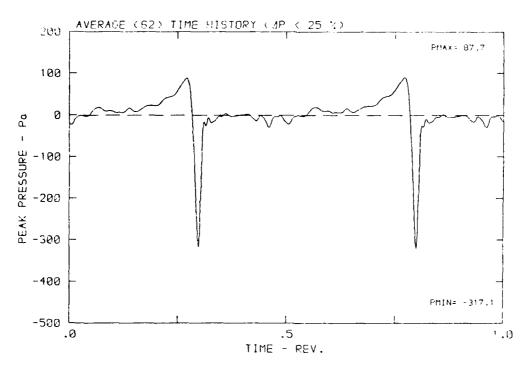


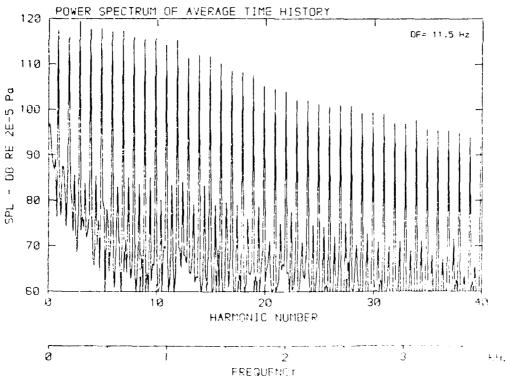
 $\beta: 20.8^{\circ}$ MH: .9048 n: 2753 npm v/u: .266 $\phi: .0^{\circ}$ T: 279.2 k



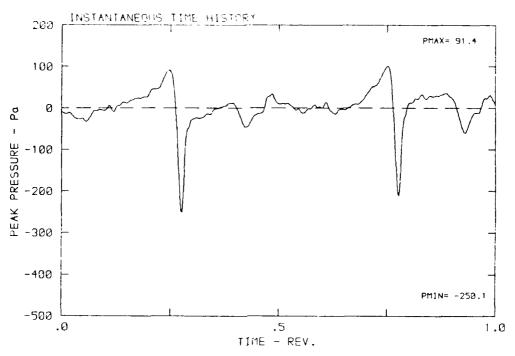


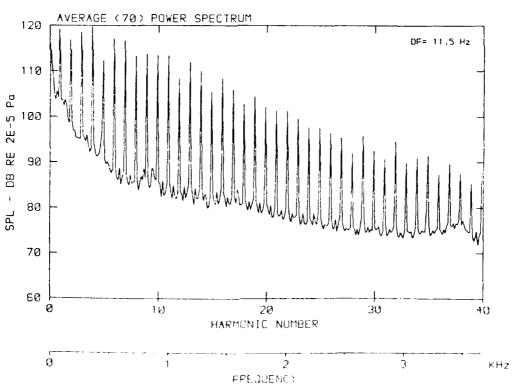
 β : 20.8° MH: .9048 n: 2753 npm v/u: .266 ϕ : .0° T: 279.2 K



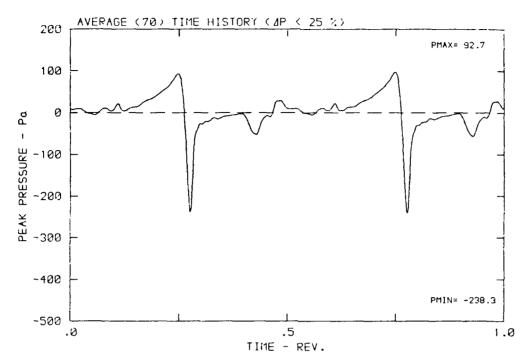


β: 20.8° MH: .9048 n: 1753 mpm (v.u.: .188 φ: .0°) 7: 279.2 %

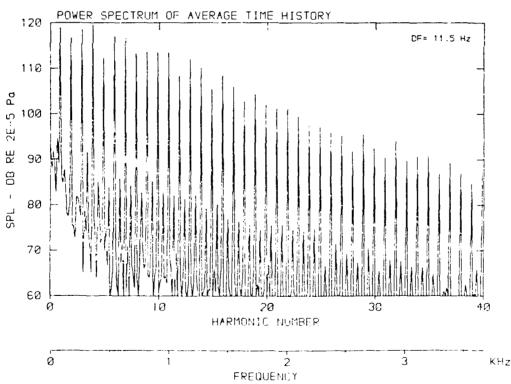




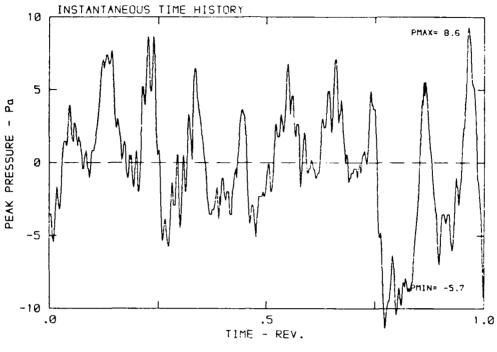
 $\beta\colon 20.8^{o}$ MH: .9048 n: 2753 rpm v/u: .266 $\varphi\colon .0^{o}$ T: 279.2 K

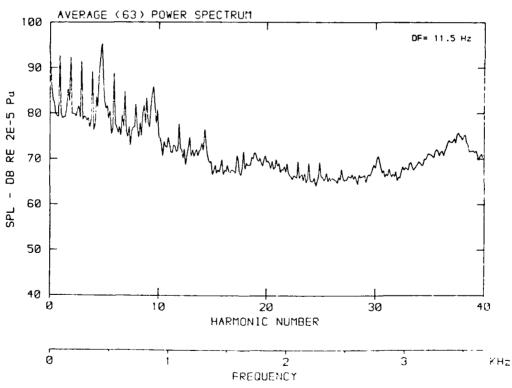


KANAKA SEESEE KANAKA

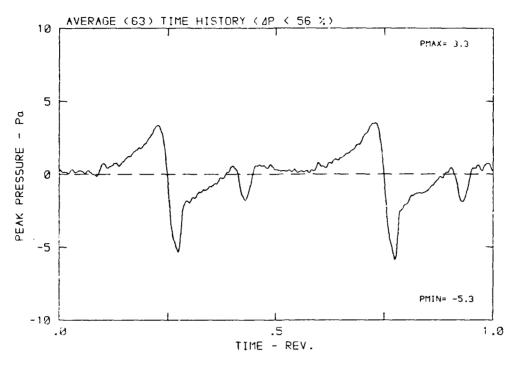


 $β: 20.8^{\circ}$ MH: .9048 n: 2753 rpm v/u: .266 φ: .00 T: 279.2 K

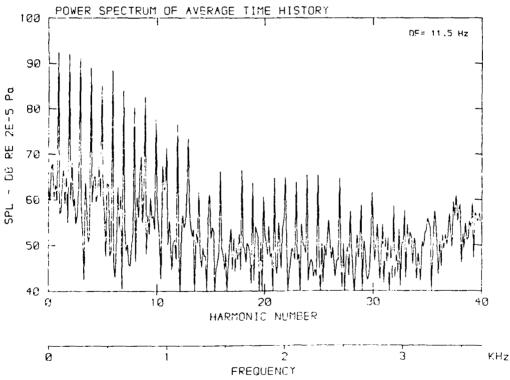




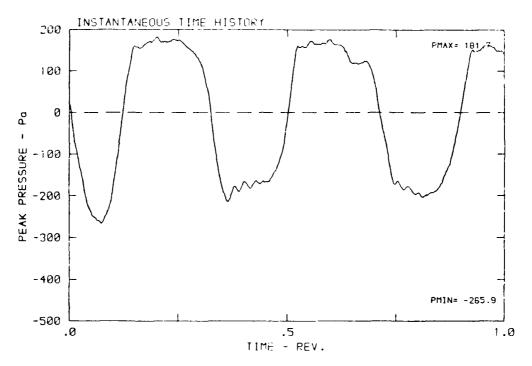
 β : 20.8° MH: .9048 n: 2753 rpm v/u: .266 ϕ : .0° T: 279.2 K

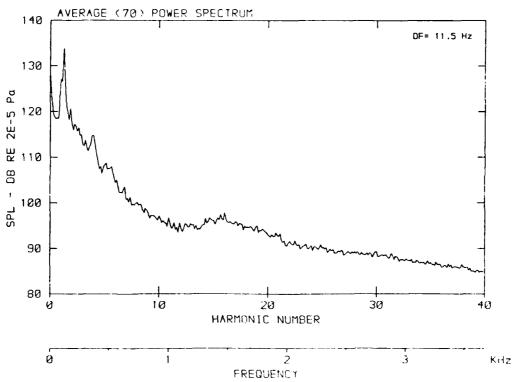


ASSESSED ACCOUNTS CONTRACTOR MADE CONTRACTOR

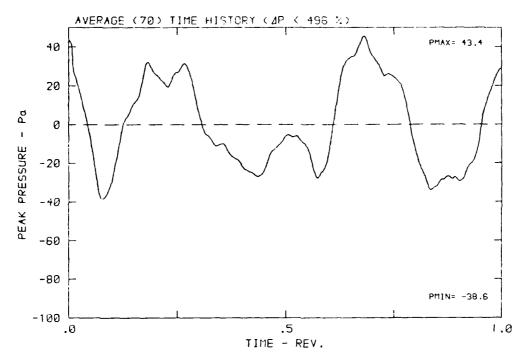


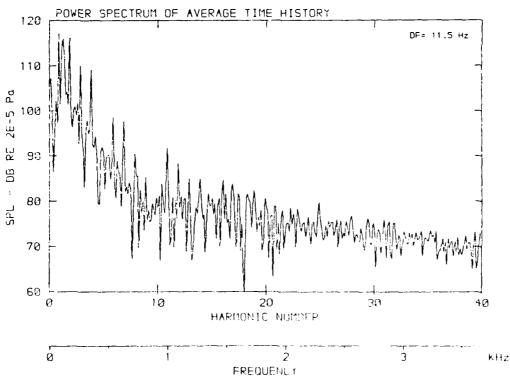
 $β: 20.8^{\circ}$ MH: .9048 n: 2753 npm - γ/u: .366 $φ: .0^{\circ}$ T: 279.2 κ



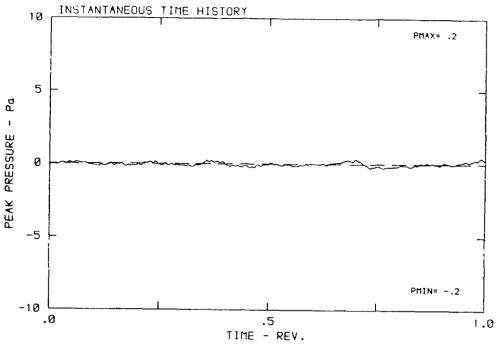


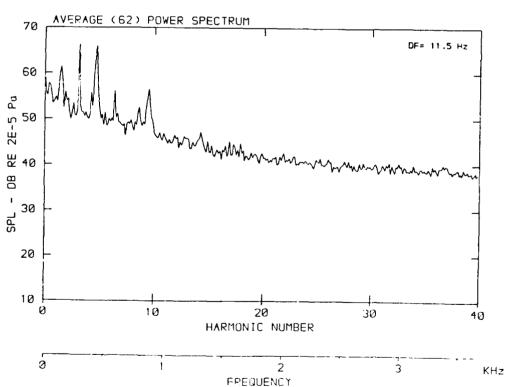
 $β: 20.8^{\circ}$ MH: .9048 n: 2753 rpm ν/u: .266 $φ: .0^{\circ}$ T: 279.2 K





 β : 20.8° MH: .9048 n: 2753 rpm v/u: .266 ϕ : .0° T: 279.2 K

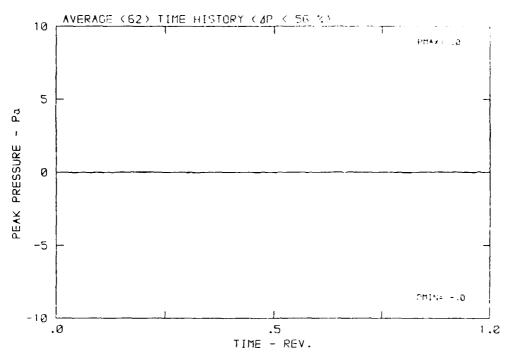


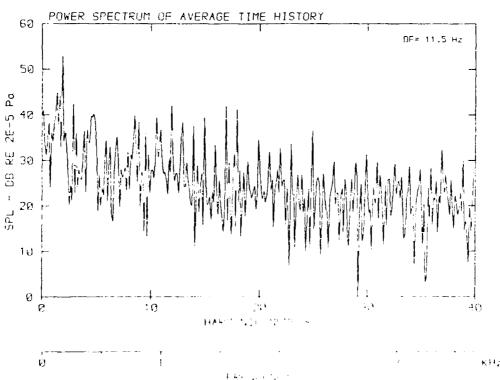


CONTRACTOR CONTRACTOR DESIGNATION

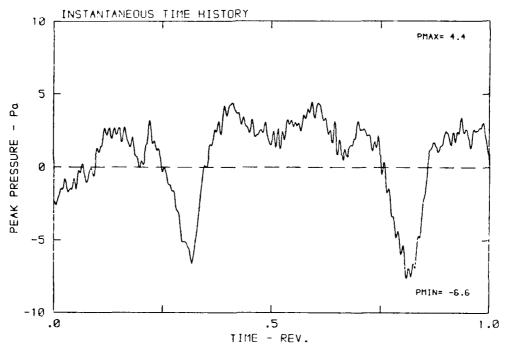
ROTTON CONTRACTOR STATEMENT

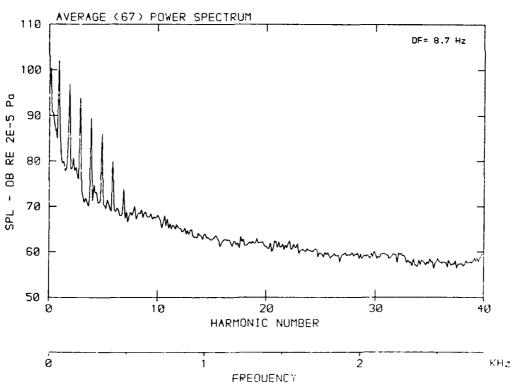
β: 20.8° MH: .9048 n: 2753 rpm ν/u: .266 φ: .0° ': .29.2



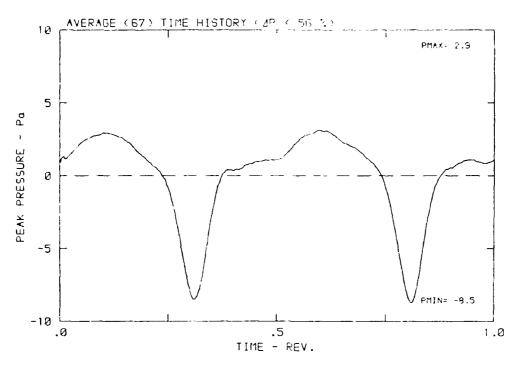


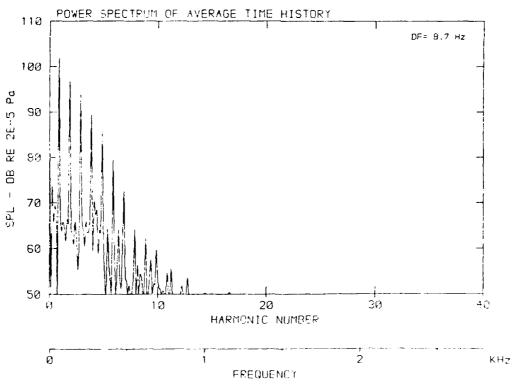
 β : 19.5° MH: .5859 n: 2100 rpm v/u: .229 ϕ : .0° T: 277.8 K



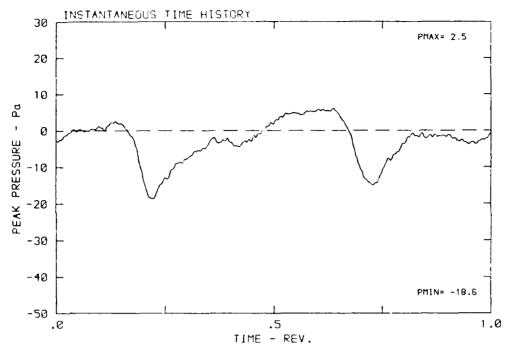


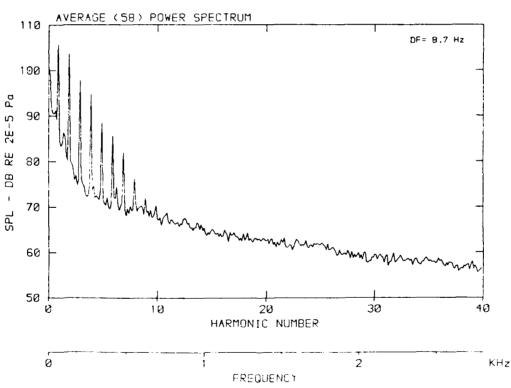
 β : 19.9° MH: .6859 n: 2100 rpm v/u: .229 ψ : .0° T: 277.8 K



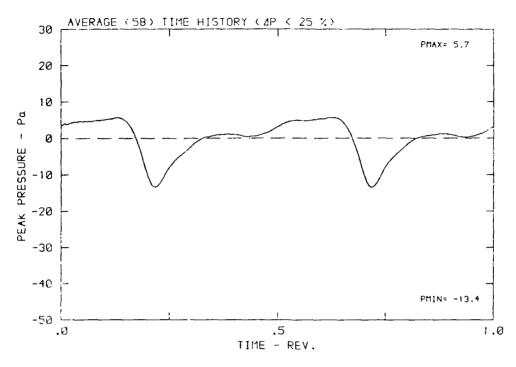


β: 19.9° MH: .5859 n: 2100 rpm ν/u: .229 φ: .9° T: 277.8 k

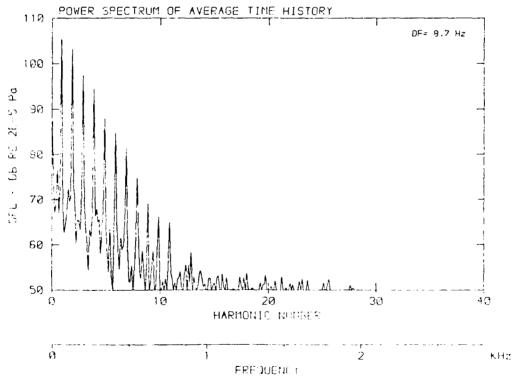




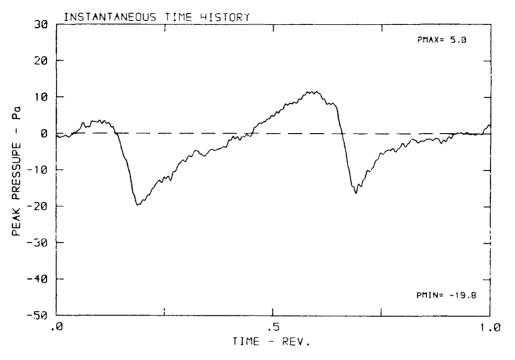
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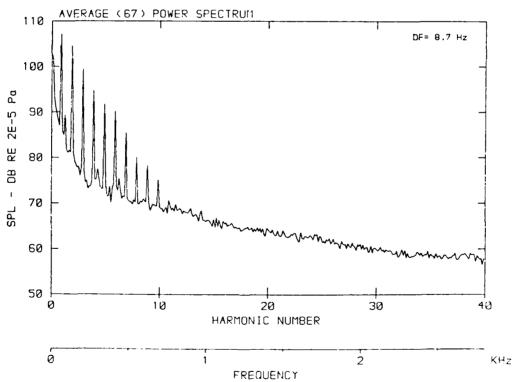


COCCOSION NEVERTEES



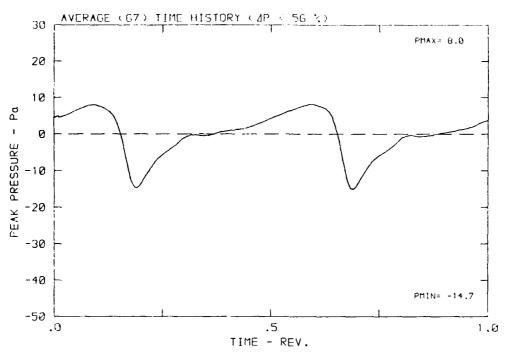
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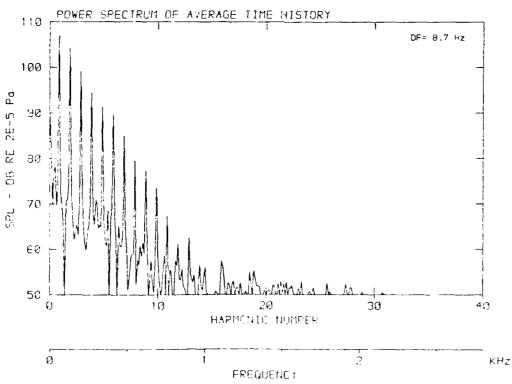




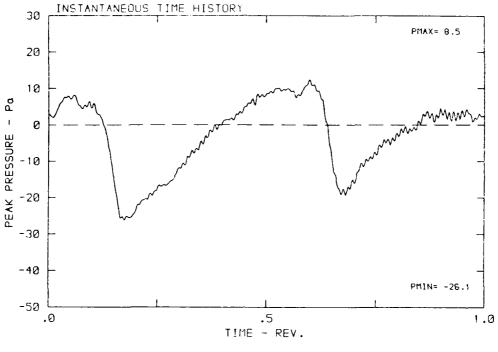
BABBARA GERMAN PROPERTY PARAMETERS

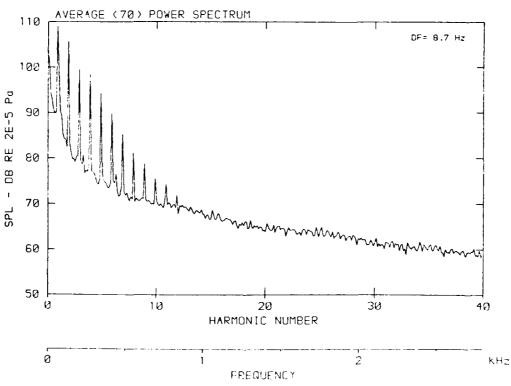
β: 19.9° MH: .6859 n: 2100 rpm $v \times u$: .229 φ: .0° Τ: 277.8 κ



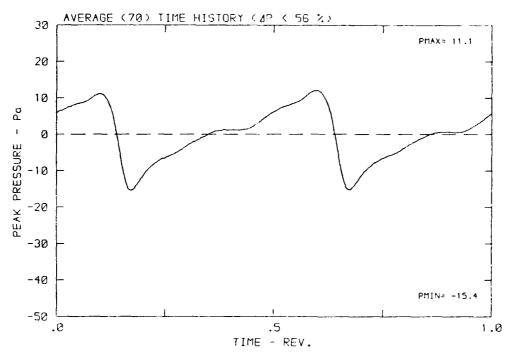


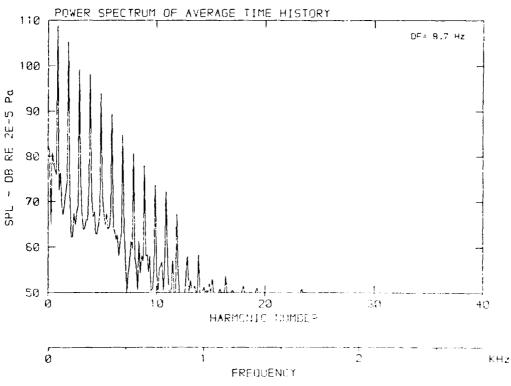
β: 19.9° MH: .6859 n: 2100 npm γ/u: .229 φ: .0° T: 277.8 k



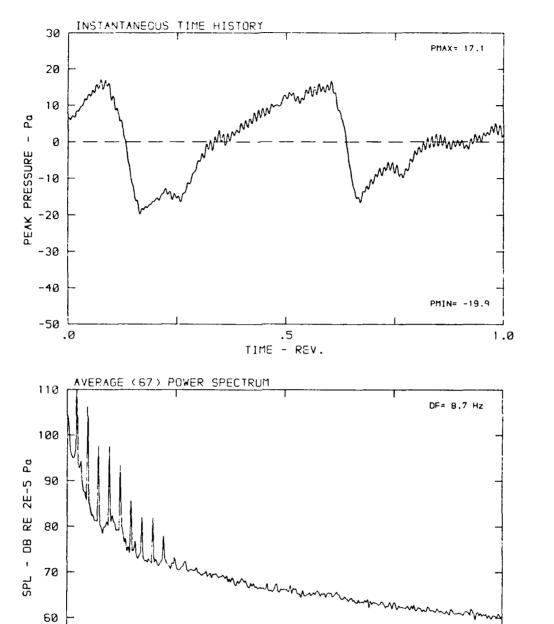


 β : 19.9° MH: .6859 n: 2100 rpm v/u: .229 ϕ : .0° T: 277.8 k





 $\beta\colon\,19.9^{\circ}\,$ MH: .6859 in: 2100 npm viu: .229 $\varphi\colon\,.0^{\circ}\,$ T: 277.8 ε



20

HARMONIC NUMBER

FREQUENCT

30

KHz

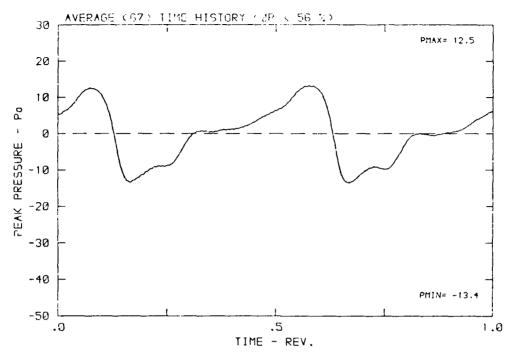
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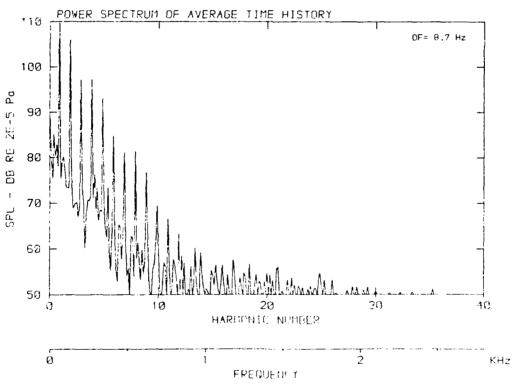
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10

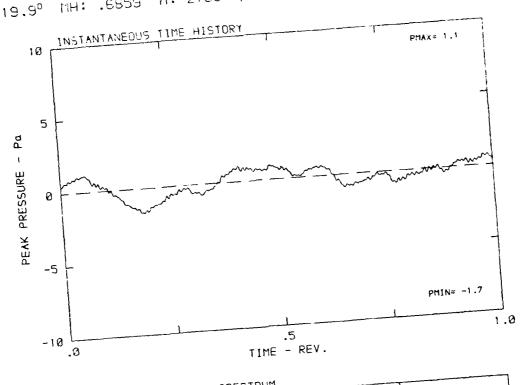
 β : 19.9° MH: .6859 n: 2100 npm v/u: .229 ϕ : .0° I: 277.8 K



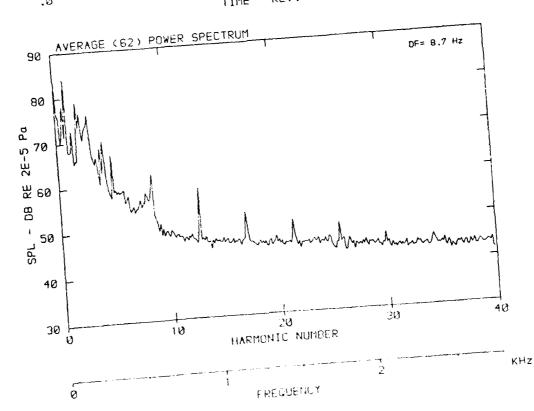


n: 2100 rpm

β: 19.9° MH: .6859



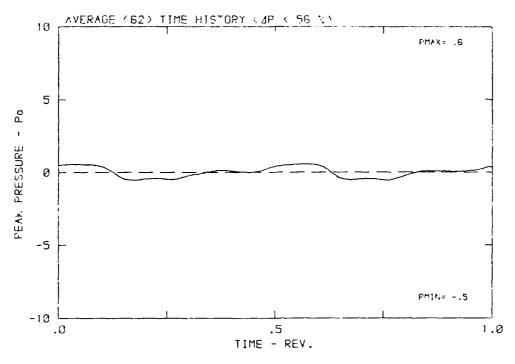
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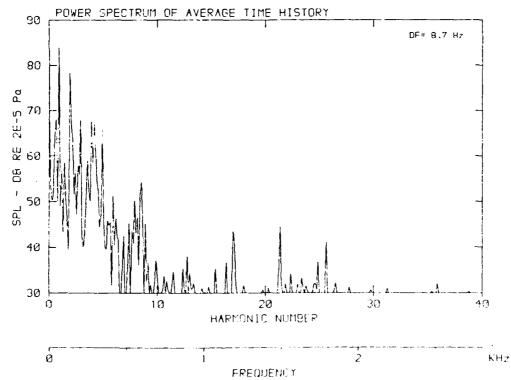


DATA POINT: IN-1 FUN: 36 MP: 6

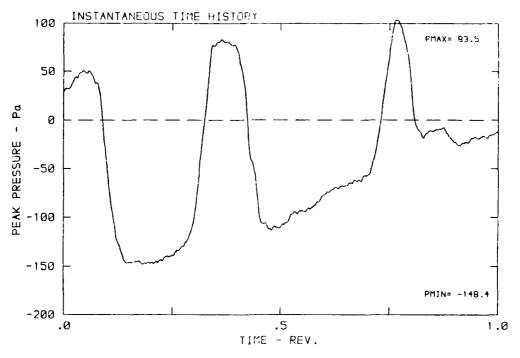
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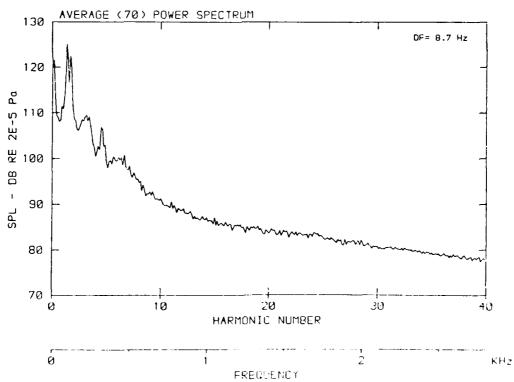
STEEL STREET





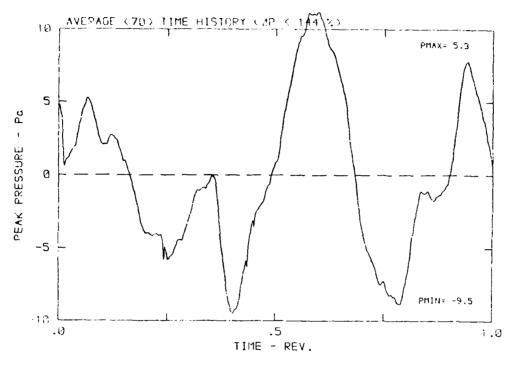
β: 19.9° ИН: .6859 n: 2100 rpm V/U: .129 ψ : .0° T: .11.9 χ



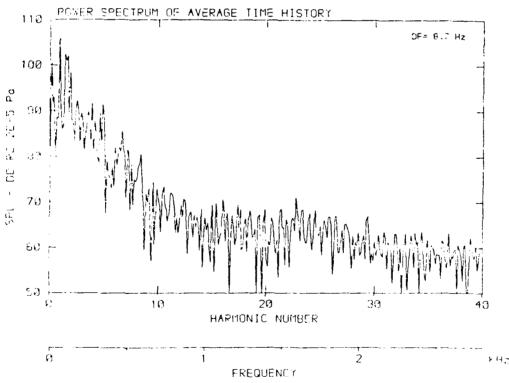


DATA POINT: IN 1 RUN: 35 MP: 7

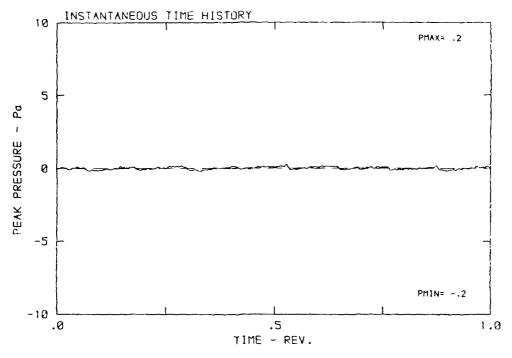
β: 19.9° MH: .6859 n: 2100 rpm v/u: .229 φ: .0° T: 277.5 κ

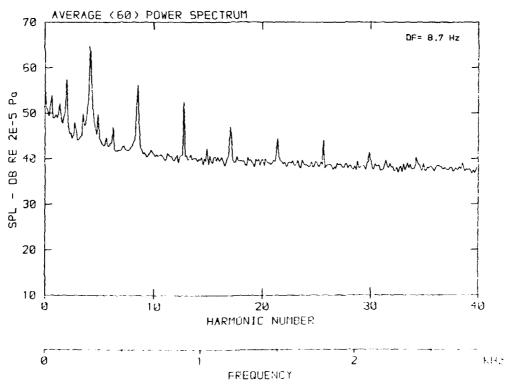


KERTIGER STREETS

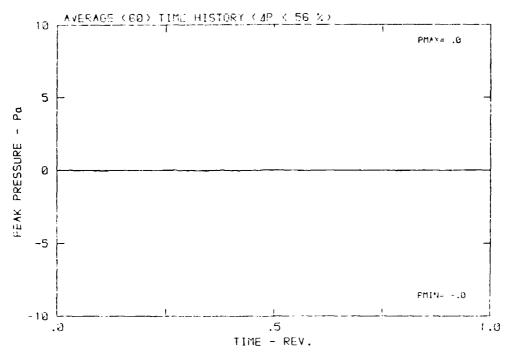


β: 19.9° MH: .6859 n: 2100 rpm γ/u: .229 φ: .0′ T: 277.5 K

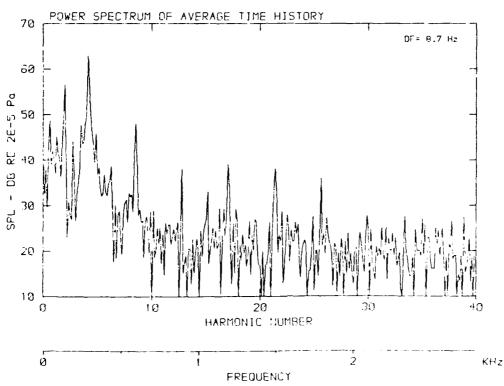




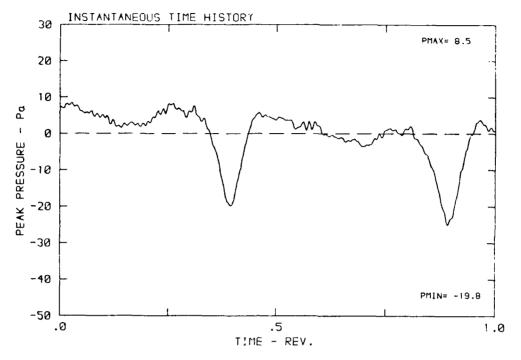
β: 19.9° MH: .6859 n: 2100 rpm v/u: .229 φ: .0° T: 277.8 K

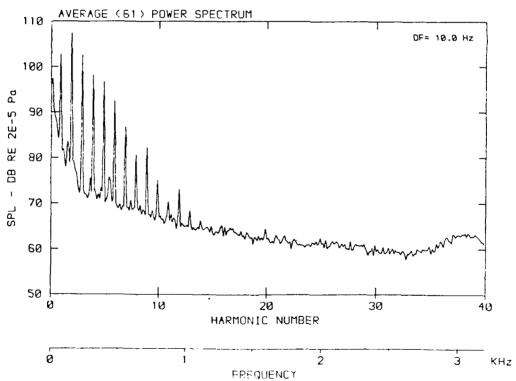


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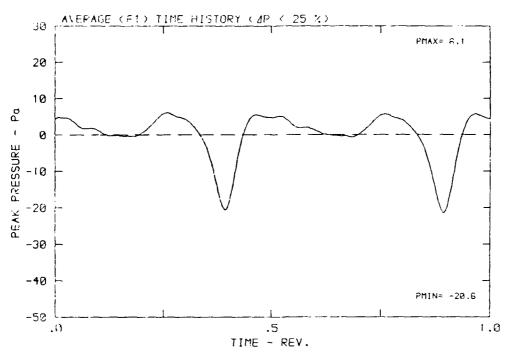


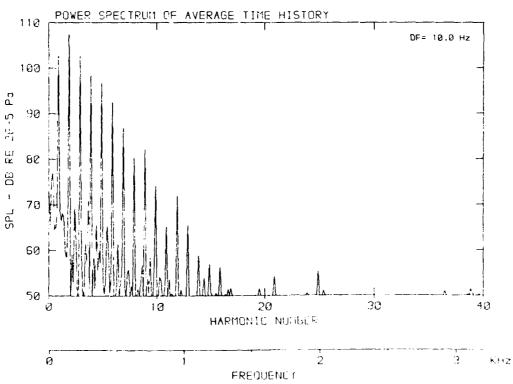
 β : 19.9° MH: .7787 n: 2400 rpm v/u: .201 ϕ : .0° T: 278.3 K



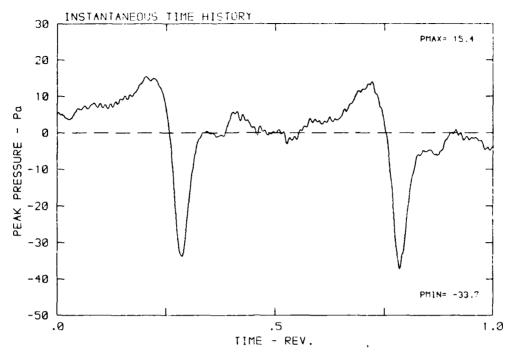


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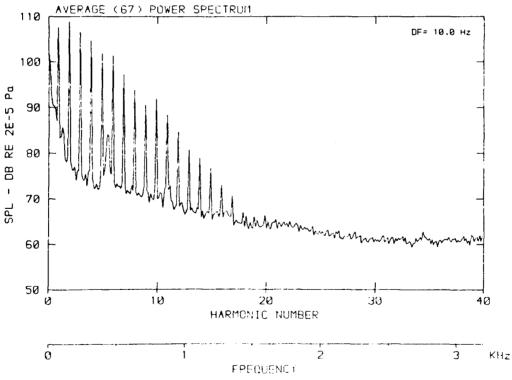




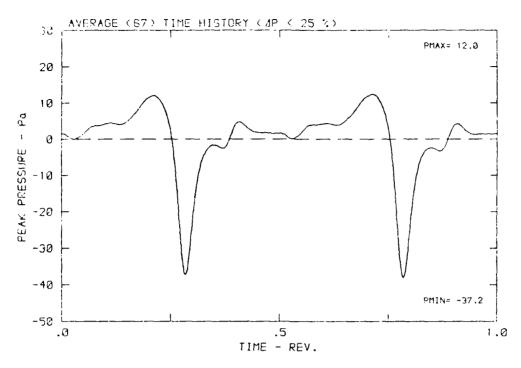
β: 19.9° MH: .7787 n: 2400 npm - v/u: .2d1 φ: .0° 1: 278.3 k

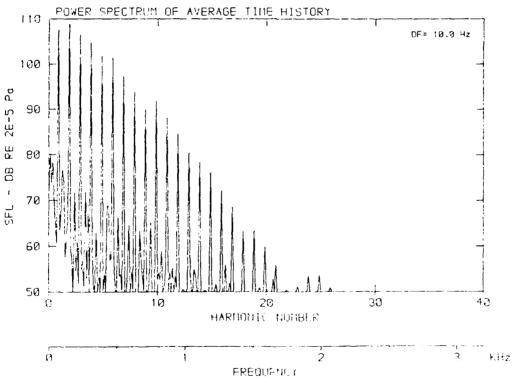


MANAGE PROPERTY RESERVES SECTION OF

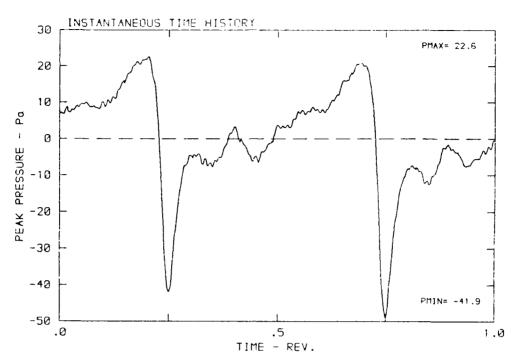


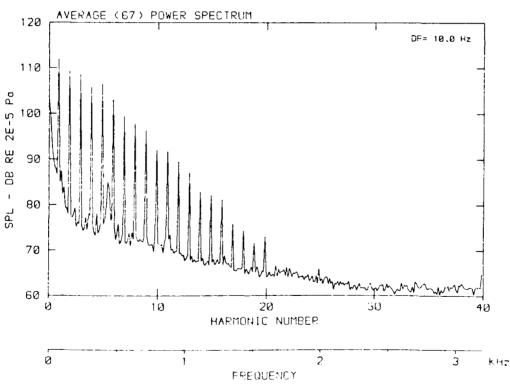
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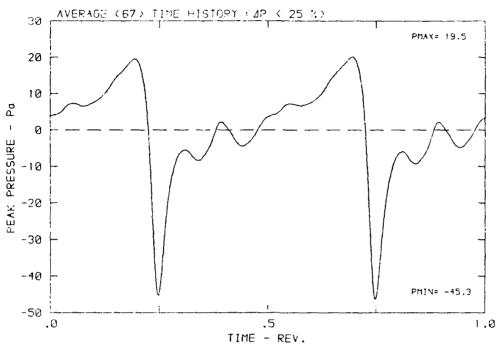


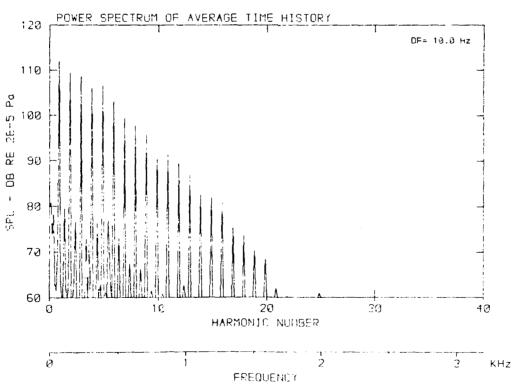
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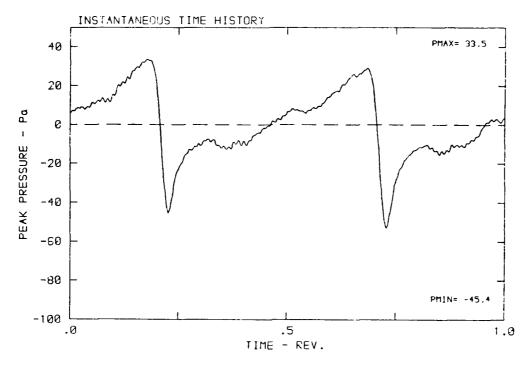


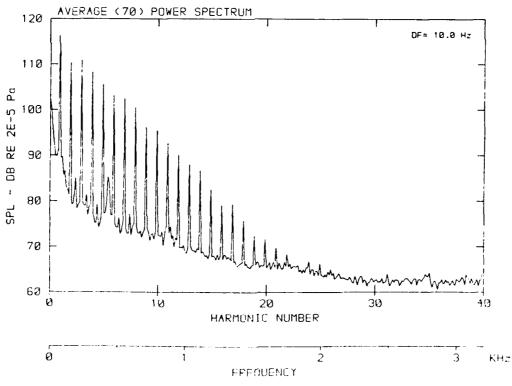
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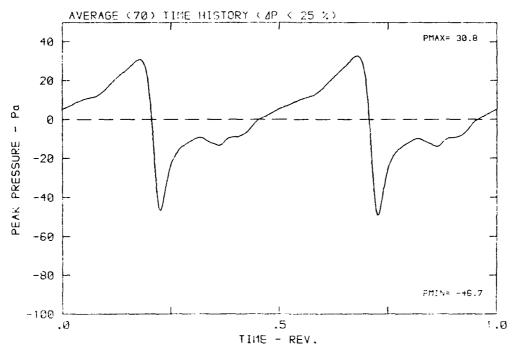
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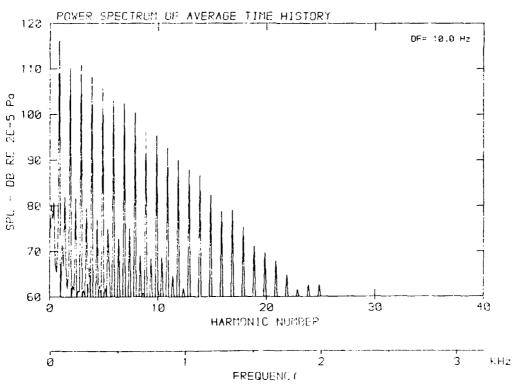




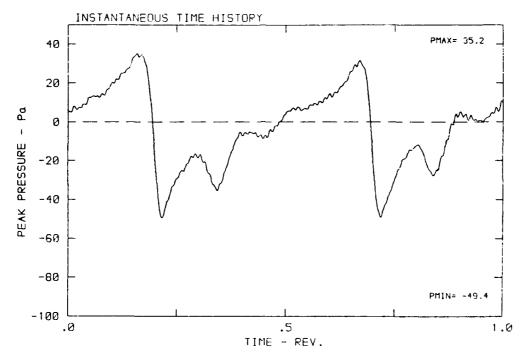
β: 19.9° MH: .7787 n: 2400 npm vzu: .201 φ: .0° f: 278.3 κ

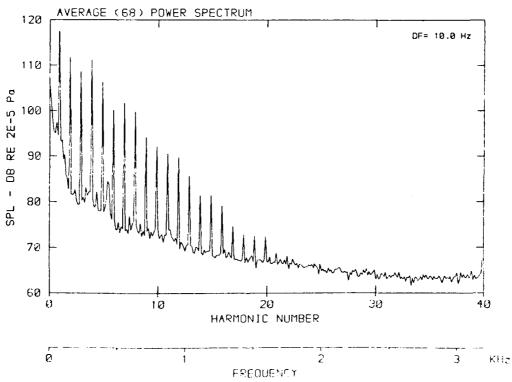
COLUMNIA CONTRACTOR INTO



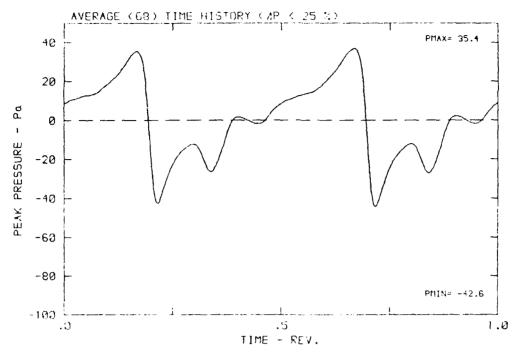


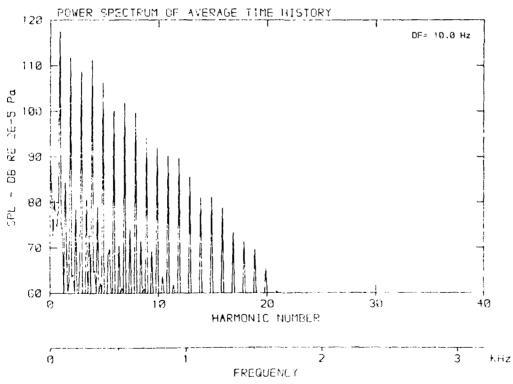
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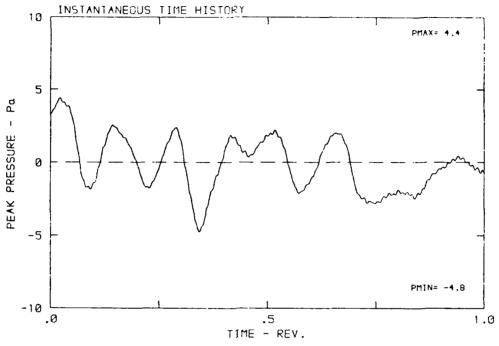


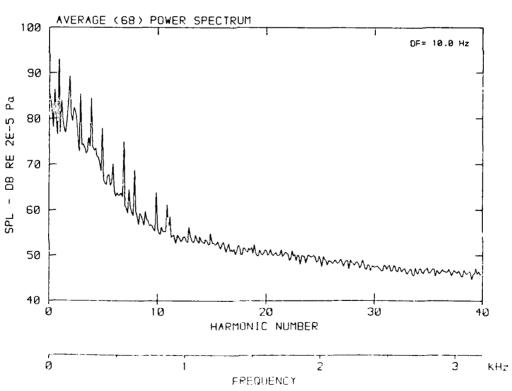
β: 19.9° MH: .7787 n: 2400 rpm v/u: .201 φ: .0° T: 278.3 K



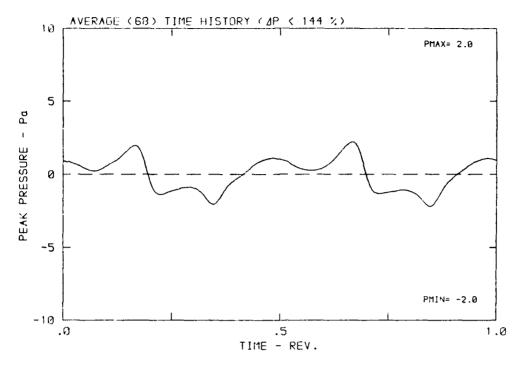


 $\beta\colon\,19.9^{\circ}$ MH: .7787 n: 2400 npm v/u: .201 $\varphi\colon\,.0^{\circ}$ T: 278.3 k

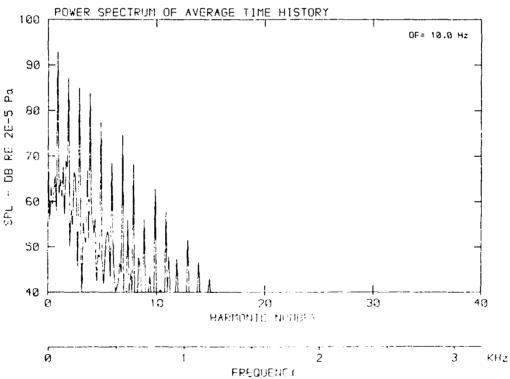




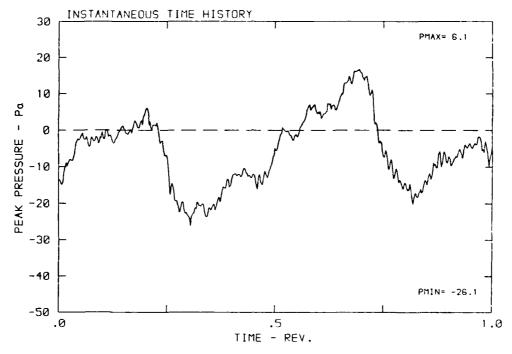
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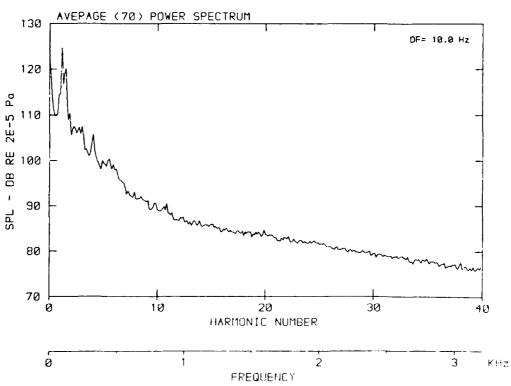


PROCESSES SONDERS ACCORDED DESCRIPTION PRODUCTION

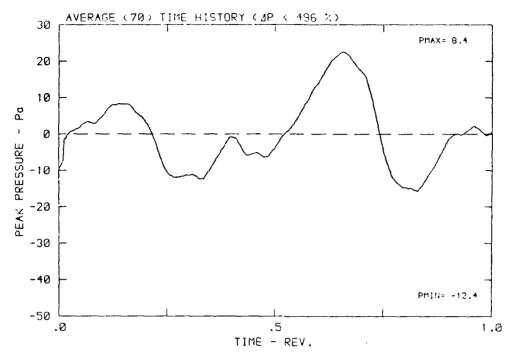


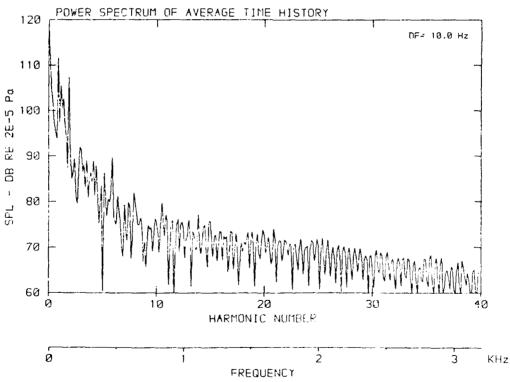
β: 19.9° MH: .7787 n: 2400 rpm v/u: .201 φ: .0° T: 278.3 k



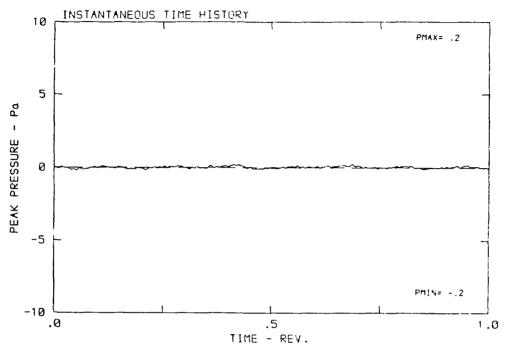


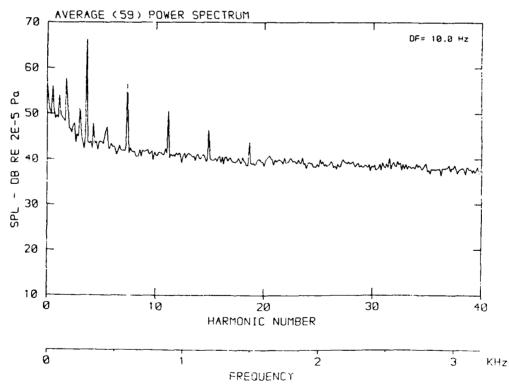
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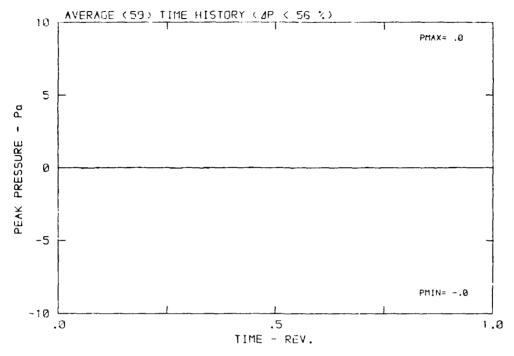


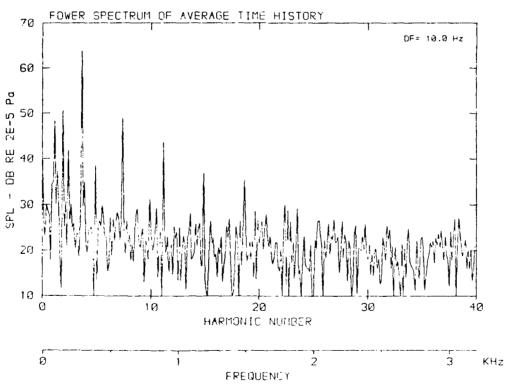
β: 19.9° MH: .7787 n: 2400 rpm v/u: .201 φ: .0° T: 278.3 K



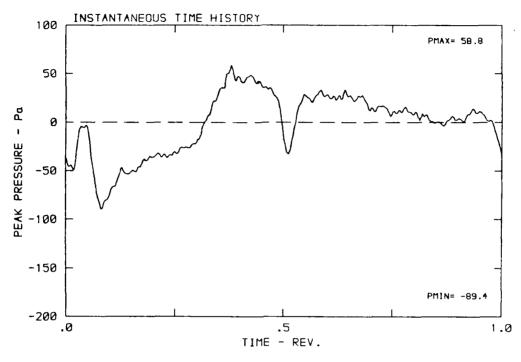


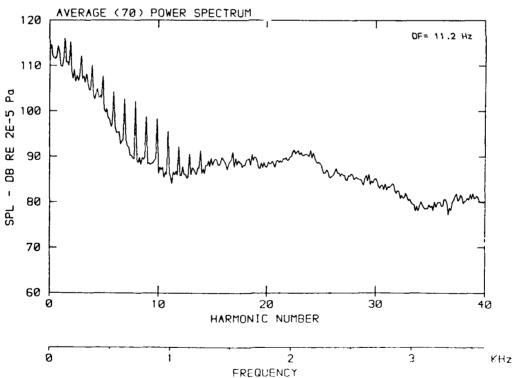
β: 19.9° MH: .7787 n: 2400 rpm v/u: .201 φ: .0° T: 278.3 K





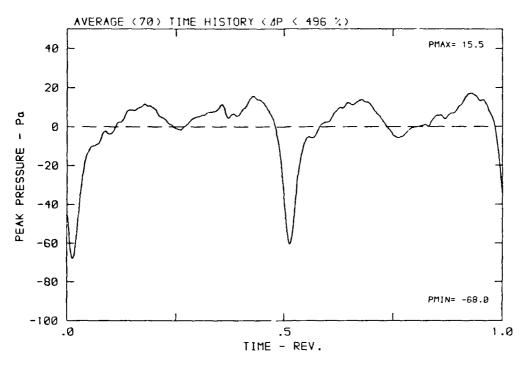
 β : 19.9° MH: .8879 n: 2700 rpm v/u: .268 ϕ : .0° T: 279.1 K



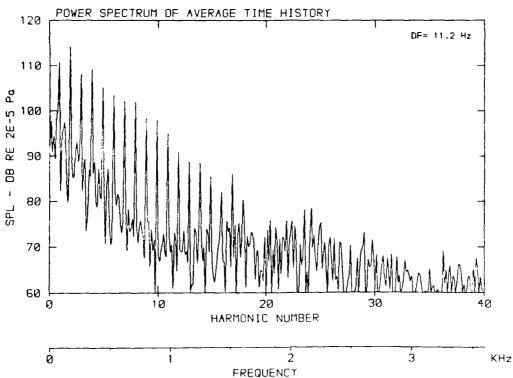


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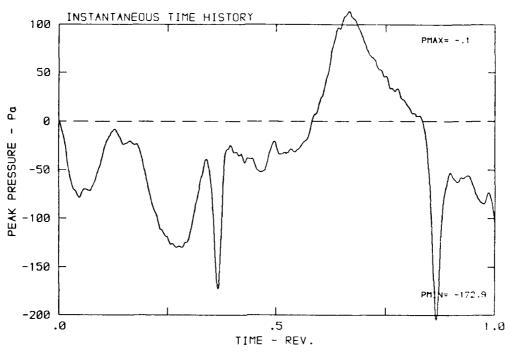
 β : 19.9° MH: .8879 n: 2700 rpm v/u: .268 ϕ : .0° T: 279.1 K

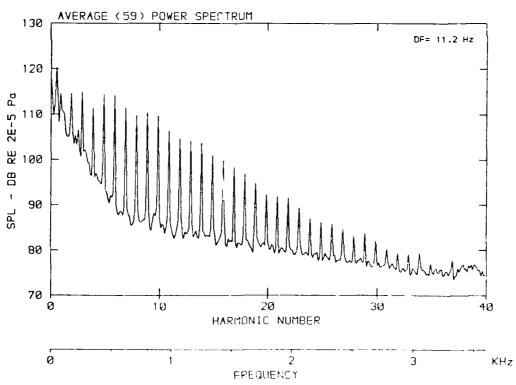


CONTRACT CONTRACTOR PRODUCTION CONTRACTOR PROGRAMME

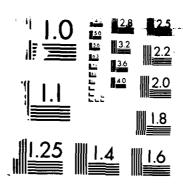


 $\beta: 19.9^{\circ}$ MH: .8879 n: 2700 rpm v/u: .268 $\phi: .0^{\circ}$ T: 279.1 K





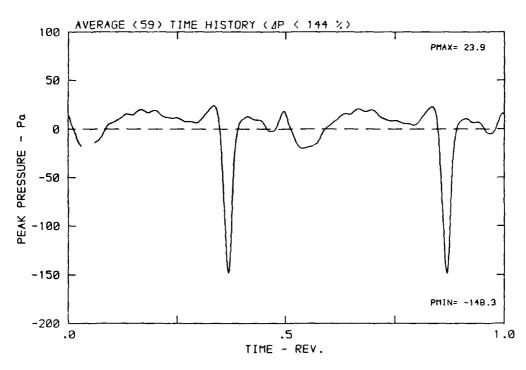
AD-A174 979 UNCLASSIFIED		LUF VER	DFVLR/FAA (DEUTSCHE FORSCHUNGS-UND VERSUCH LUFT UND RAUHFAHR. (U) DEUTSCHE FORSCHUNGS VERSUCHSANSTALT FUER LUFT- UND RAUHF M M DOBRZYNSKI ET AL. 1986							F/G 20/1		NL	
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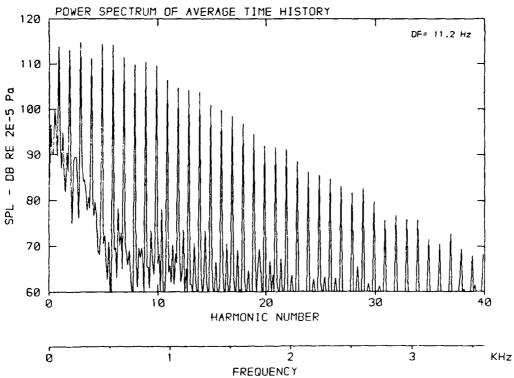


VERY RESOLUTION TEST CHAR!

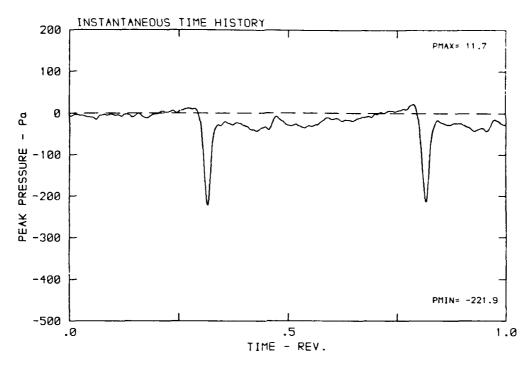
CAMPART REST

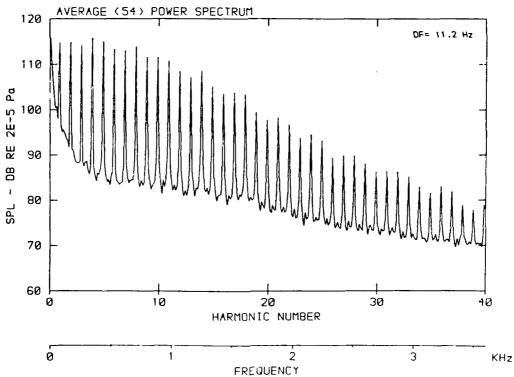
 β : 19.9° MH: .8879 n: 2700 rpm v/u: .268 ϕ : .0° T: 279.1 K



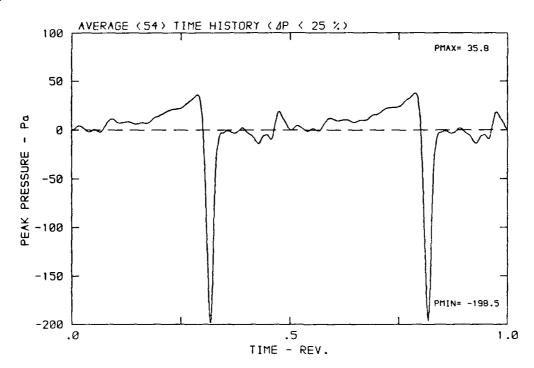


 β : 19.9° MH: .8879 n: 2700 rpm v/u: .268 ϕ : .0° T: 279.1 K

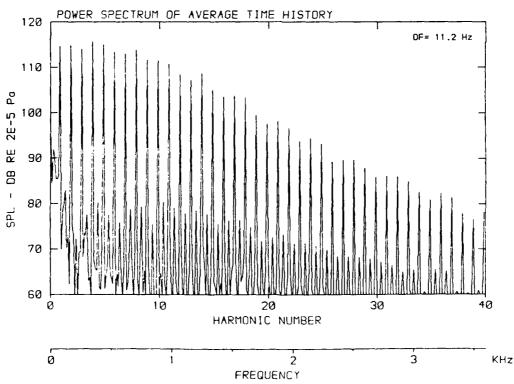




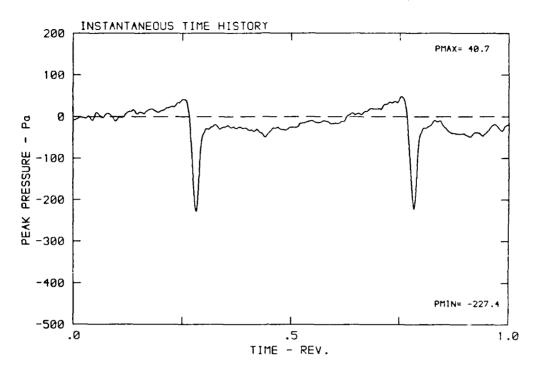
 β : 19.9° MH: .8879 n: 2700 rpm v/u: .268 ϕ : .0° T: 279.1 K



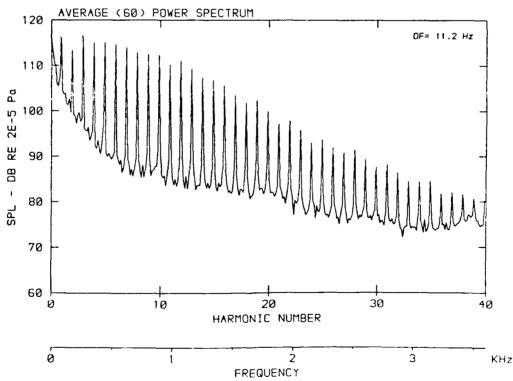
MANAGES BANADAS SERVINA



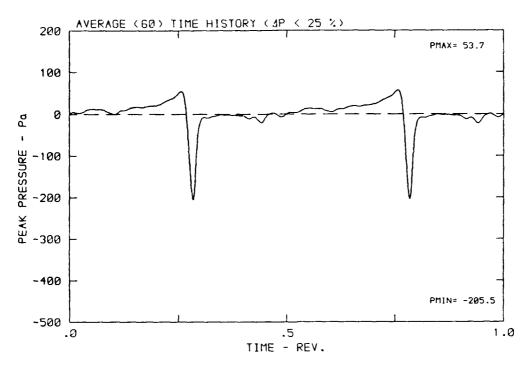
 β : 19.9° MH: .8879 r . 2700 rpm v/u: .268 ϕ : .0° T: 279.1 K

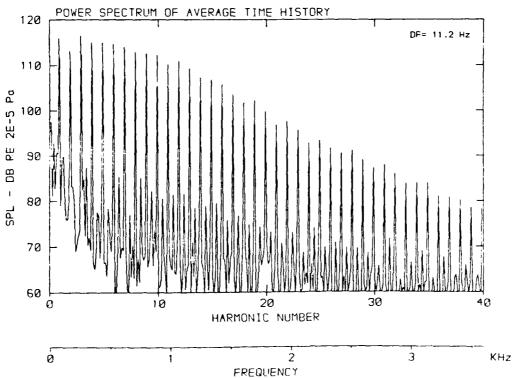


TOTAL SANCTON STATES OF THE SANCTON BY

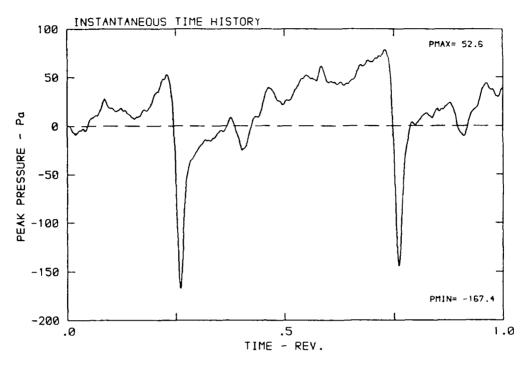


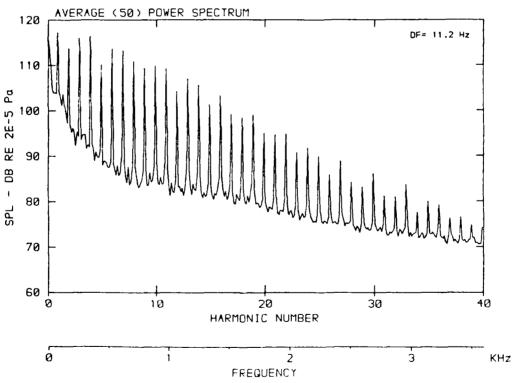
 β : 19.9° MH: .8879 n: 2700 rpm v/u: .268 ϕ : .0° T: 279.1 K



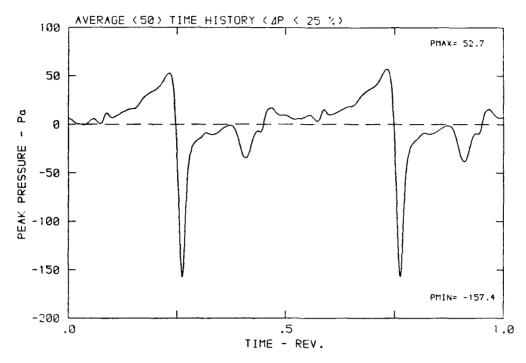


 $\beta\colon\,19.9^{\circ}\,$ MH: .8879 n: 2700 rpm v/u: .268 $\varphi\colon\,.0^{\circ}\,$ T: 279.1 K

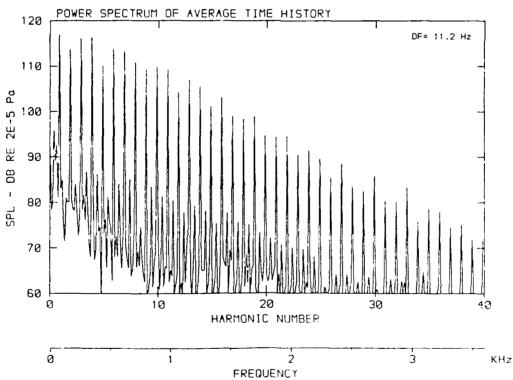




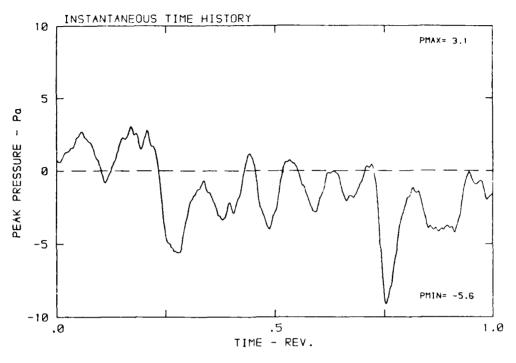
β: 19.9° MH: .8879 n: 2700 rpm ν/u: .268 φ: .0° T: 279.1 K

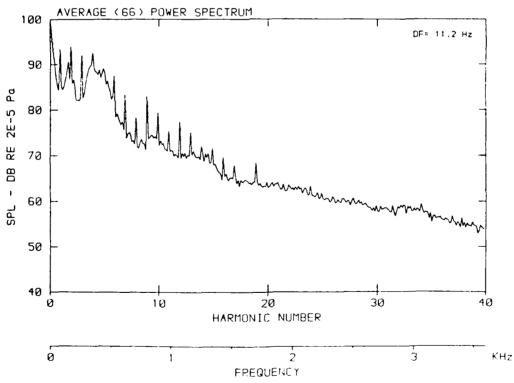


SECTION OF THE PROPERTY OF THE

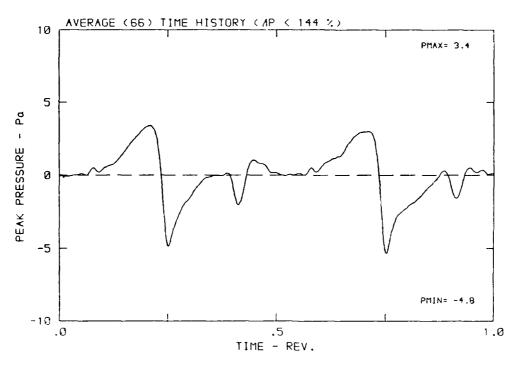


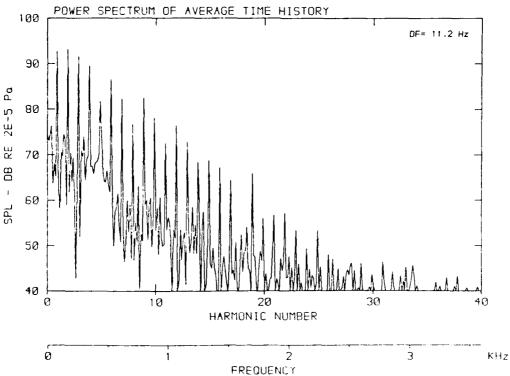
β: 19.9° MH: .8879 n: 2700 rpm v/u: .268 φ: .0° T: 279.1 K



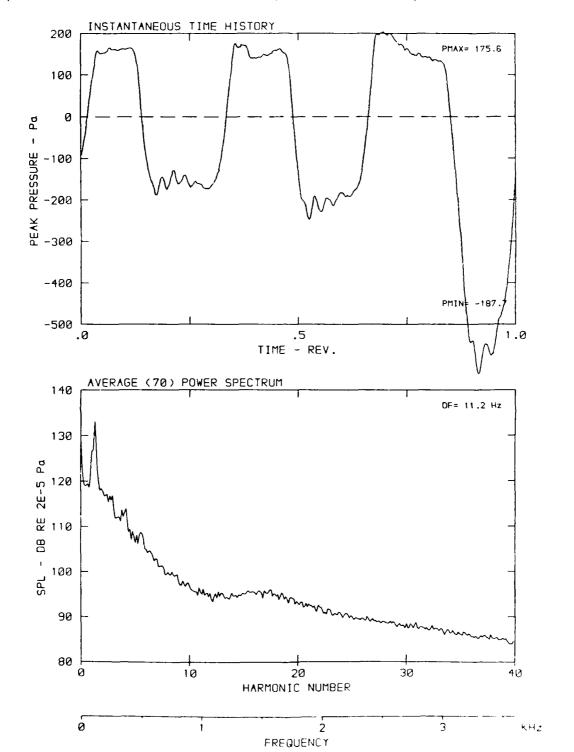


 β : 19.9° MH: .8879 n: 2700 rpm v/u: .268 ϕ : .0° T: 279.1 K

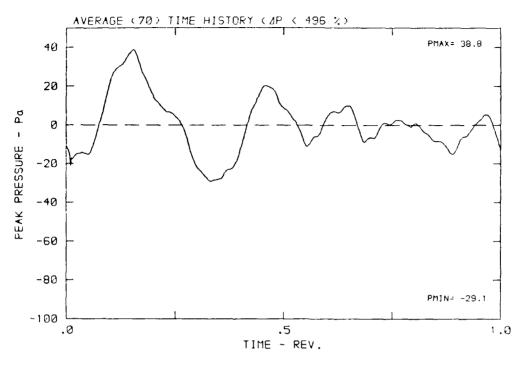


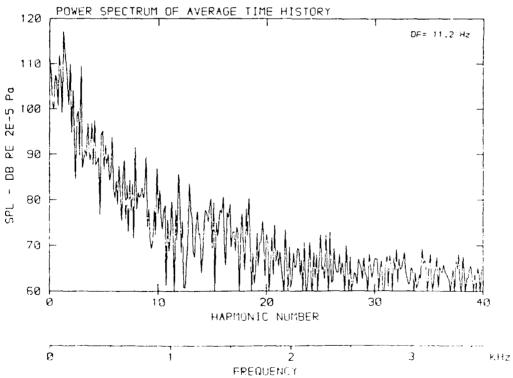


β: 19.9° MH: .8879 n: 2700 rpm ν/u: .268 φ: .0° T: 279.1 K

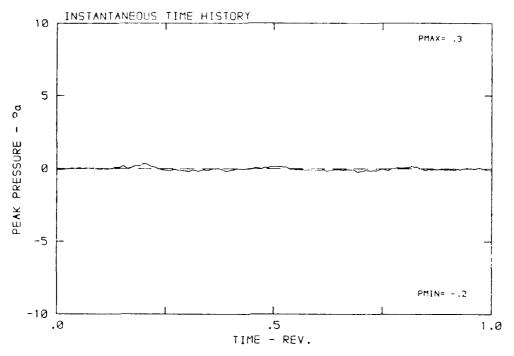


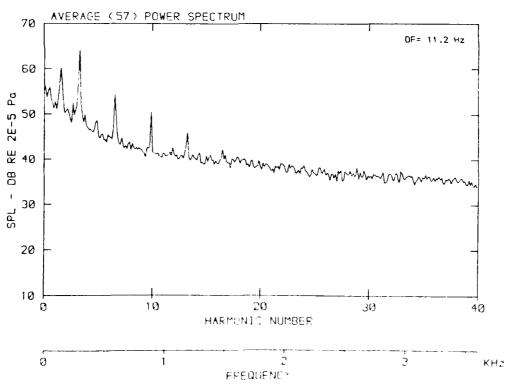
 $\beta\colon\,19.9^{\circ}\,$ MH: .8879 n: 2700 rpm v/u: .268 $\varphi\colon\,.0^{\circ}\,$ T: 279.1 K





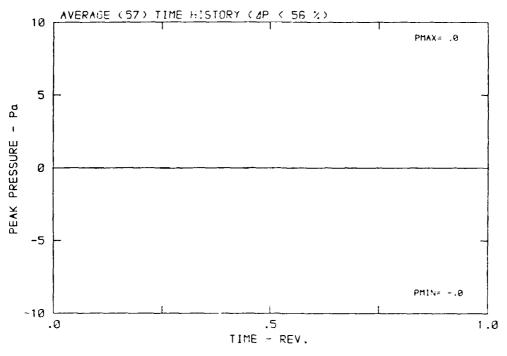
 β : 19.9° MH: .8879 n: 2700 rpm v/u: .258 ϕ : .0° T: 279.1 K

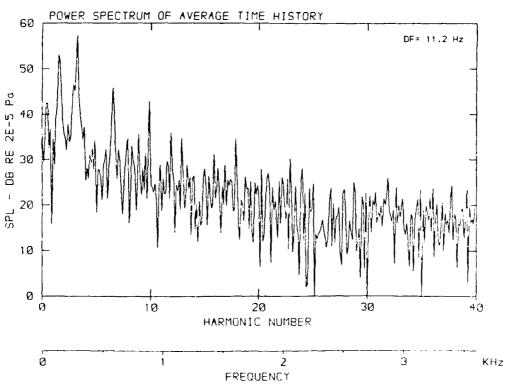




 β : 19.9° MH: .6879 n: 2700 rpm v/u: .268 ϕ : .0° T: 279.1 K

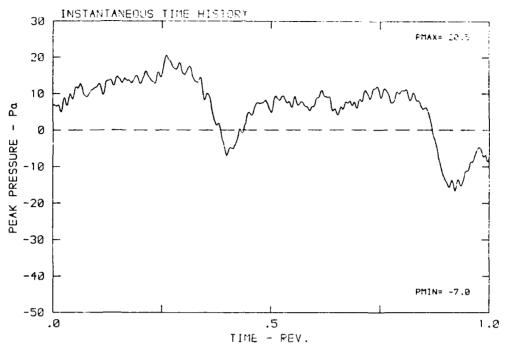
CONTRACT SECRECE ASSESSMENT ASSESSMENT

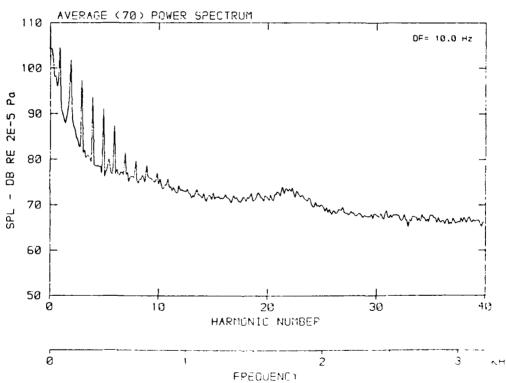




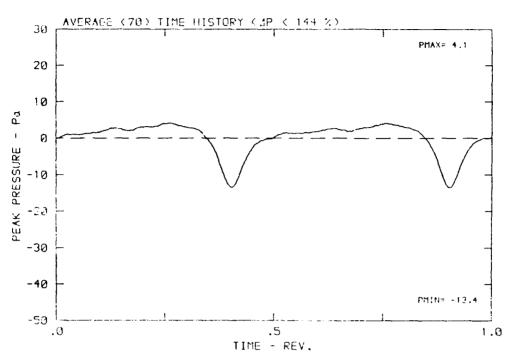
DATA POINT: JN-1 FCN: 189 MP:

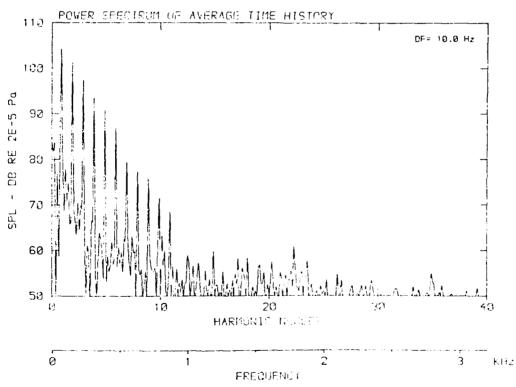
β: 20.8° MH: .7710 n: 2400 npn - vru: .301 - \$: .2° - Γ: 200.6

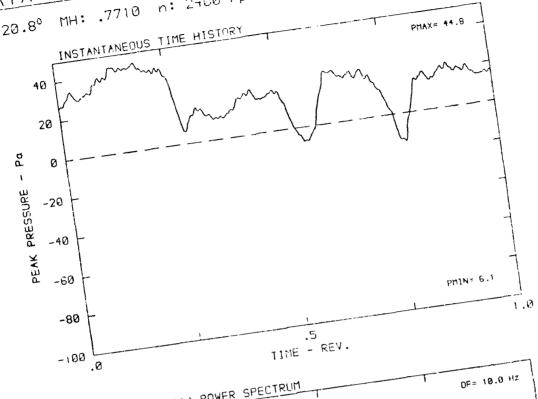


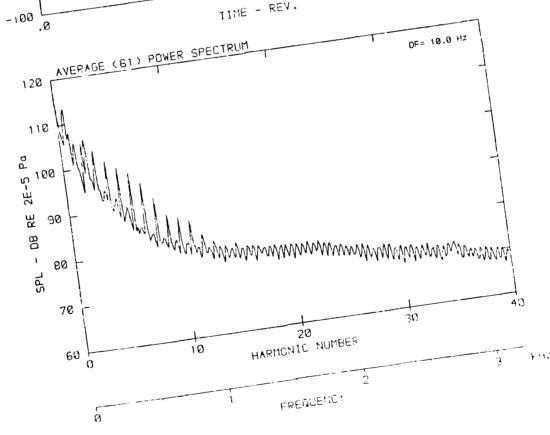


 $\beta: 20.8^{\circ}$ MH: .7710 n: 2400 npm v/u: .301 $\phi: .0^{\circ}$ T: 297.6 K

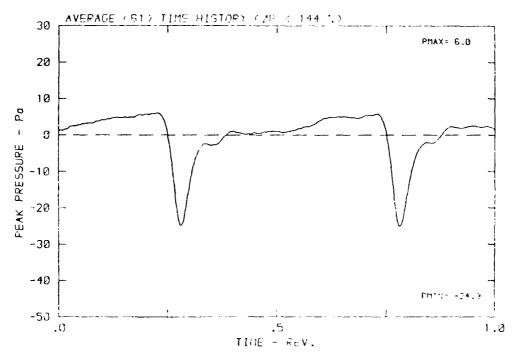




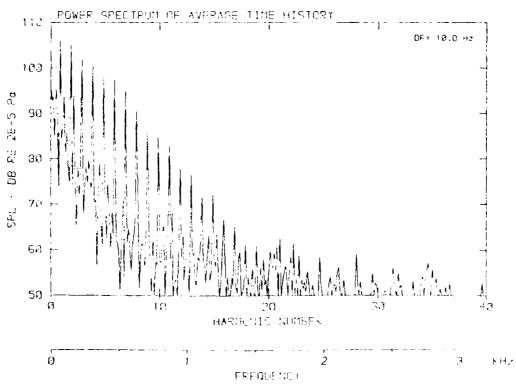




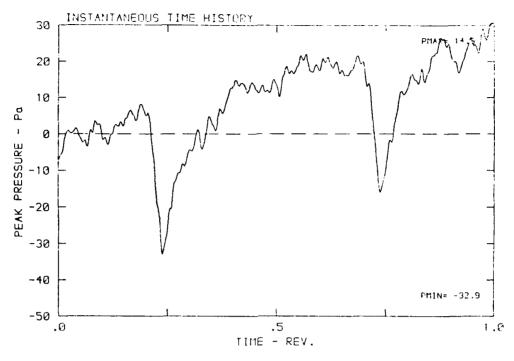
β: 20.8° MH: .7710 n: 2400 rpm v/u: .331 φ: .0° T: 297.6 k

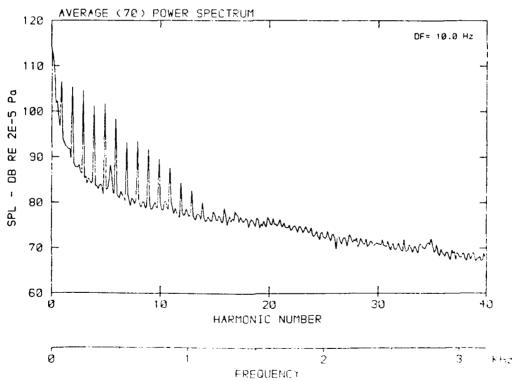


CONTROL SOUTHER CONTROL

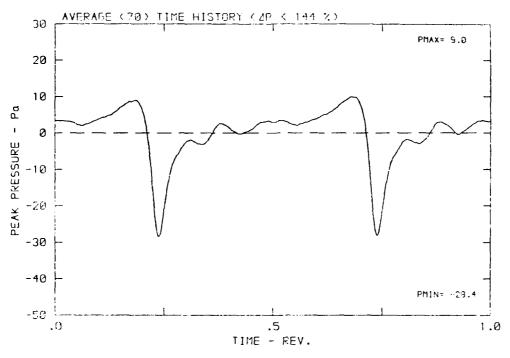


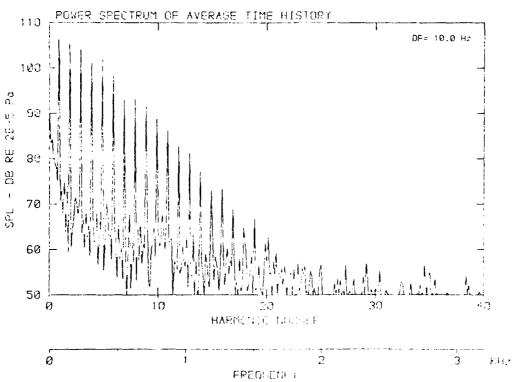
β: 20.8° MH: .7710 n: 2400 npm v/u: .301 φ: .3° T: 290.8 k



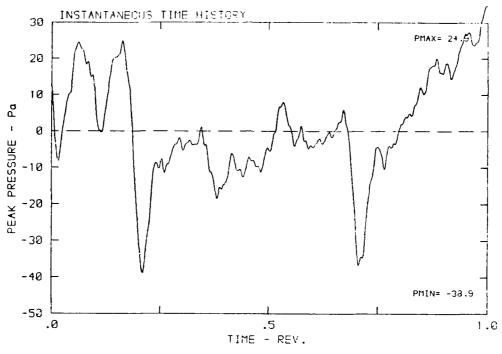


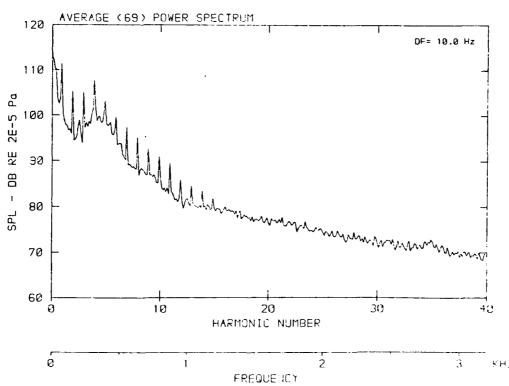
 $\beta\colon\,20.8^{\circ}\,$ MH: .7710 n: 2400 rpm v/u: .301 $\varphi\colon\,.0^{\circ}\,$ T: 257.6 K



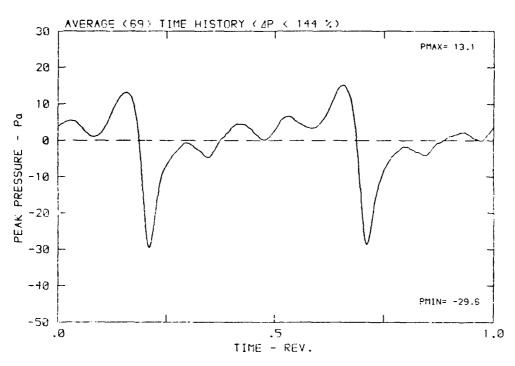


 $\beta\colon\,20.8^{\circ}\,$ MH: .7710 n: 2400 npm $\text{V/u}\colon\,.301$ $\text{ }\phi\colon\,.0^{\circ}\,$ T: 237.8 K

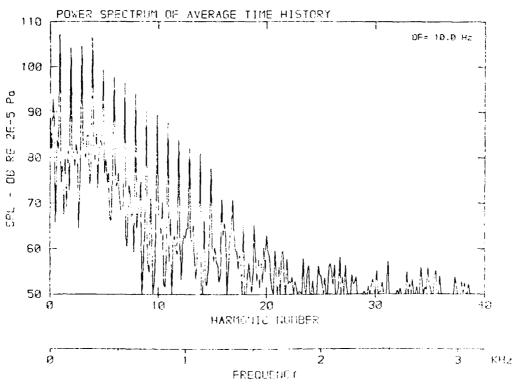




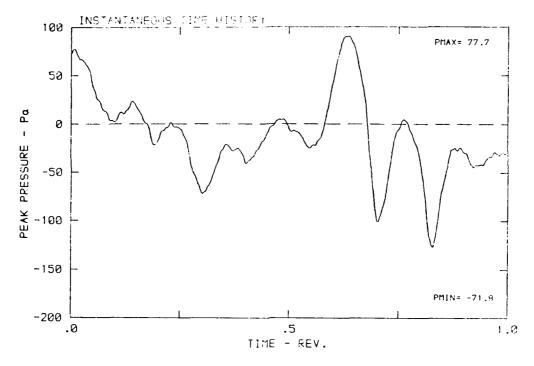
 β : 20.8° MH: .7710 n: 2400 npm v/u: .301 ϕ : .0° T: 297.6 K

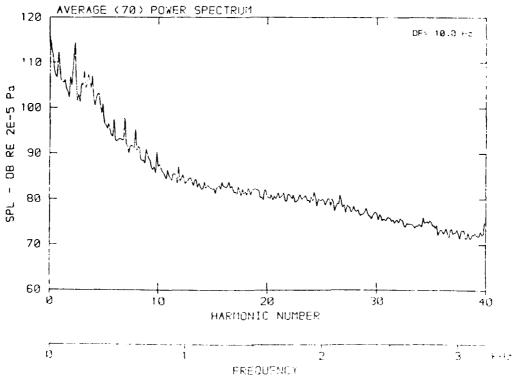


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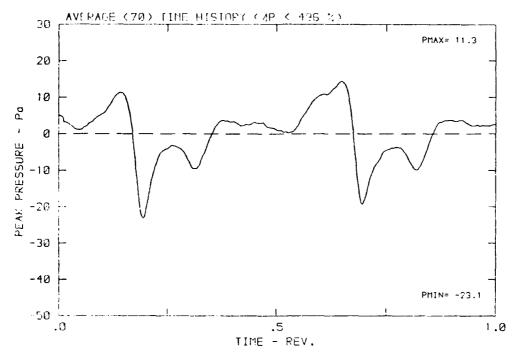


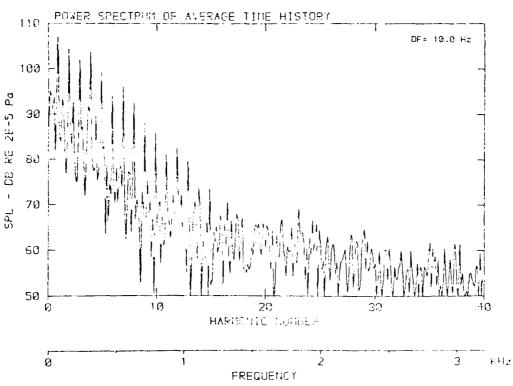
β: 20.8° MH: .7710 h: 2400 hph γ/u: .301 φ: .0° T: 297.6 K





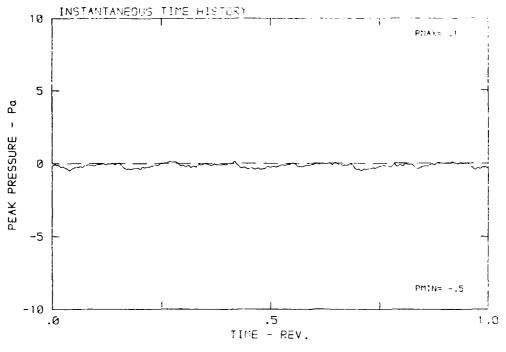
 β : 20.8° MH: .7710 n: 2400 rpm v/u: .301 ϕ : .0° T: 297.6 κ

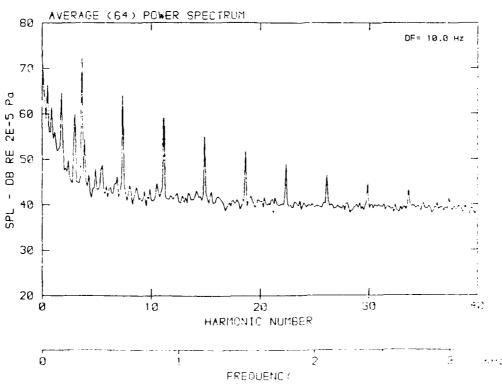




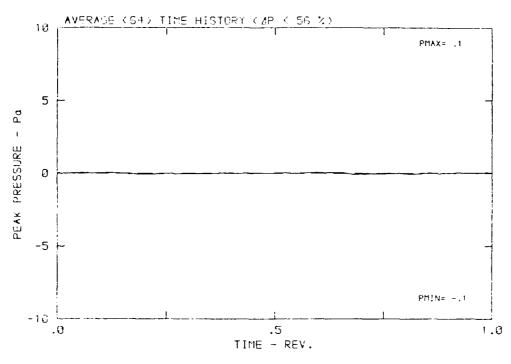
DATA POINT: JN-1 FCN: 188 MF:

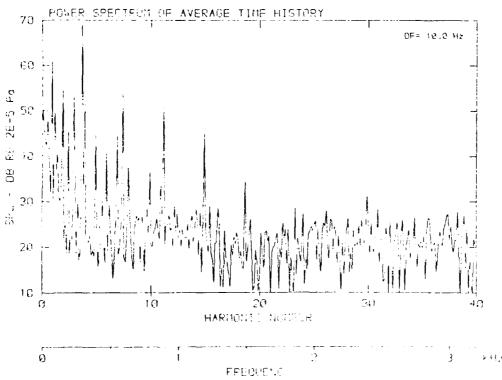
β: 20.8° MH: .7710 n: 2420 rpm ννο: .801 φ: .8° 1: 23°.





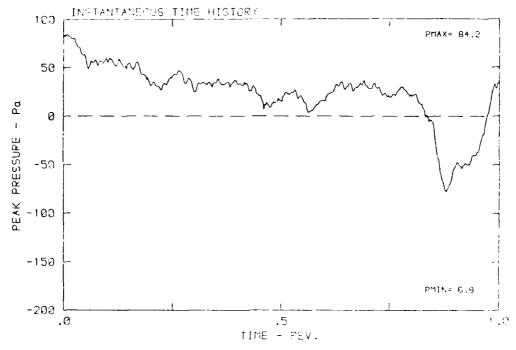
 $\beta\colon 20.8^{\circ}$ MH: .7710 n: 2400 npm v/u: .301 $\varphi\colon .0^{\circ}$ I: 297.5 K

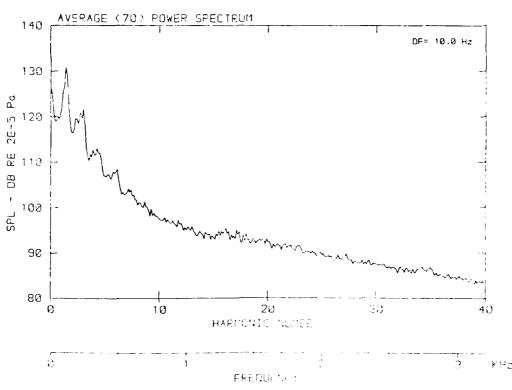




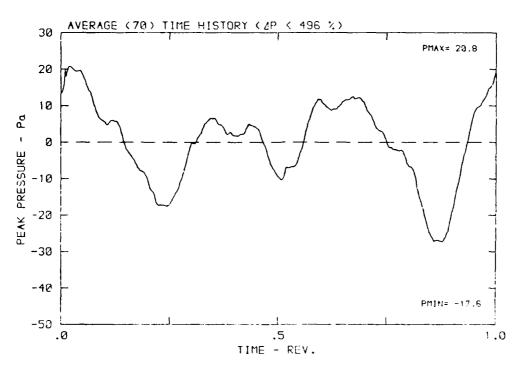
DATA POINT: JN-: RUN: 168 MP: /

β: 20.8° TH: .7710 h: 2402 rpm v u: .300 φ: .0° T: 297.6 κ

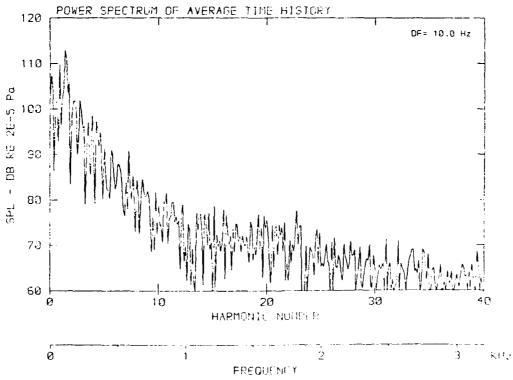




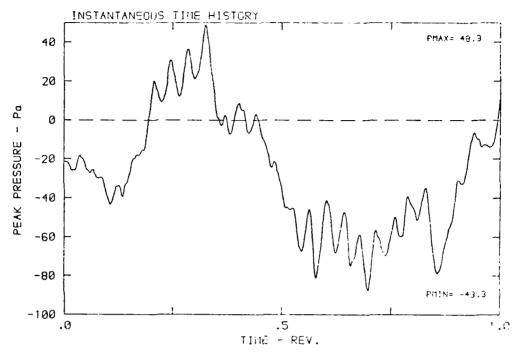
 $\beta\colon\,20.8^{o}\,$ MH: .7710 n: 2400 rpm v/u: .301 $\,\psi\colon\,.0^{o}\,$ T: 297.6 K

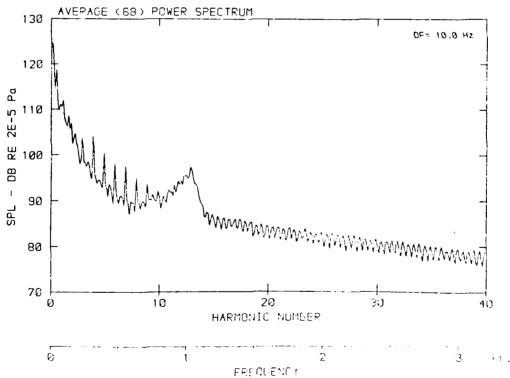


COCCESS CONSISTED ROLL CONTROL CONTROL

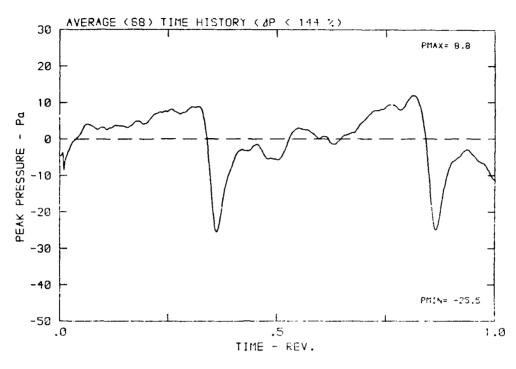


β: 20.8° MH: .7710 n: 2400 rpm v/u: .301 φ: .0° T: 297.6 K

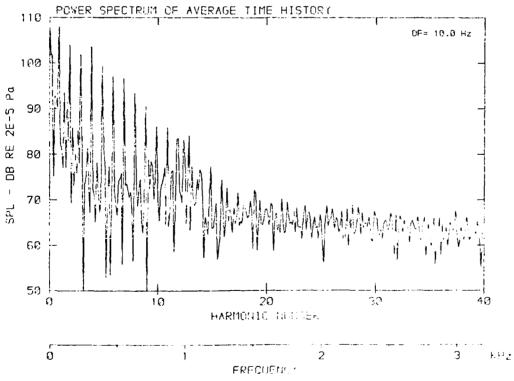




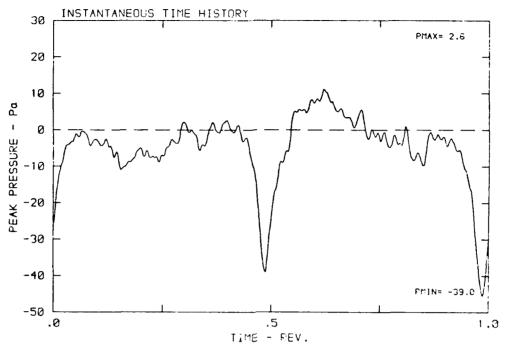
 β : 20.8° MH: .7710 n: 2400 rpm v/u: .301 ϕ : .0° T: 297.6 K

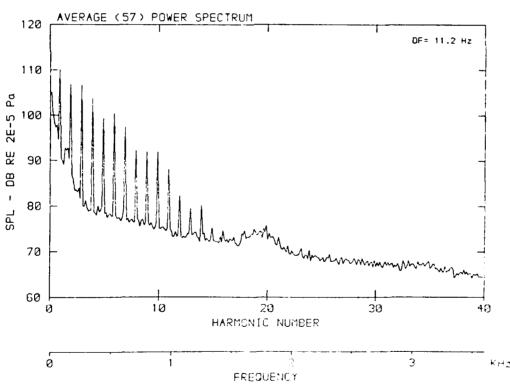


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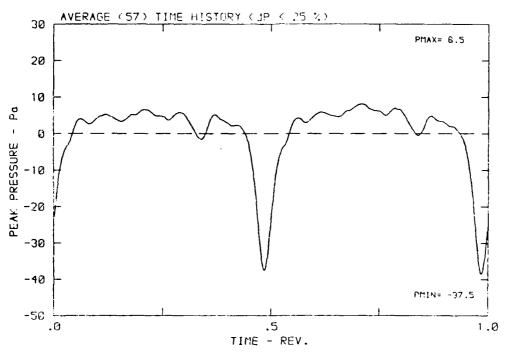
 β : 20.8° MH: .8592 n: 2700 rpm v/u: .269 ϕ : .0° T: 298.2 K

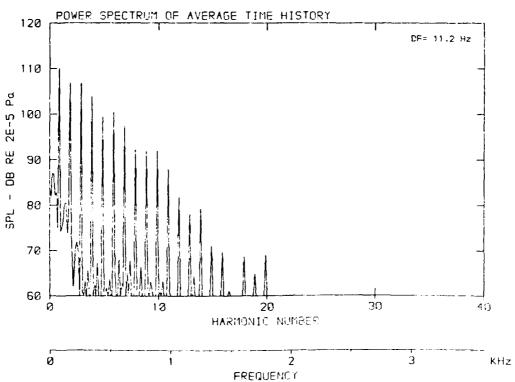




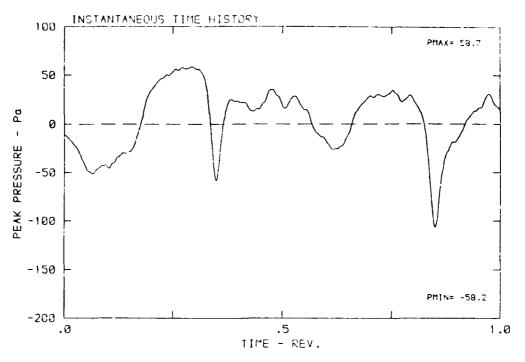
 β : 20.8° MH: .8592 n: 2700 rpm v/u: .269 ϕ : .0° T: 298.2 K

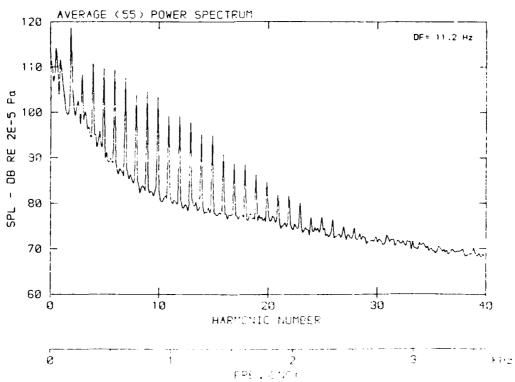
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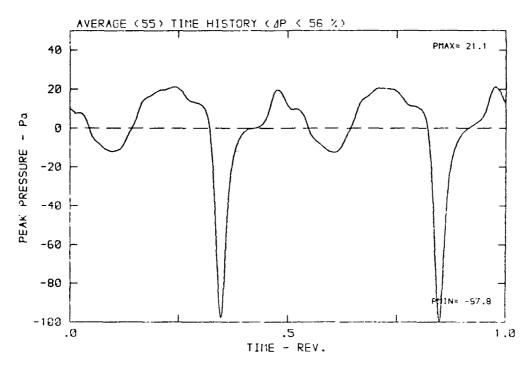


β: 20.8° MH: .8592 n: 2700 npm v/u: .269 φ: .0° 1: 295.2 κ

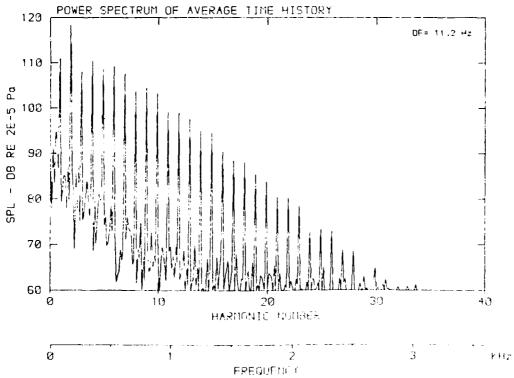




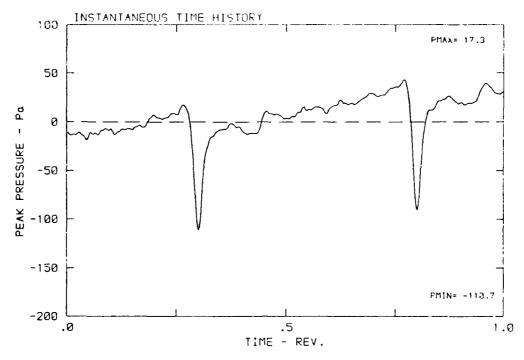
 β : 20.8° MH: .8592 n: 2700 rpm v/u: .269 ϕ : .0° T: 298.2 K

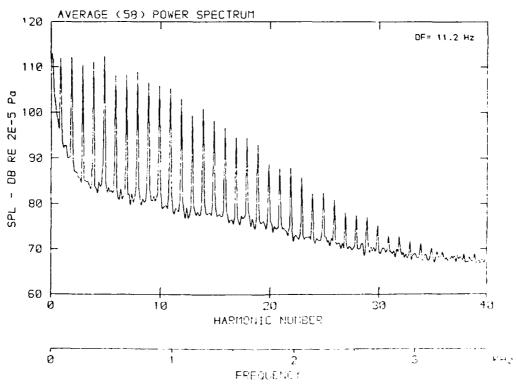


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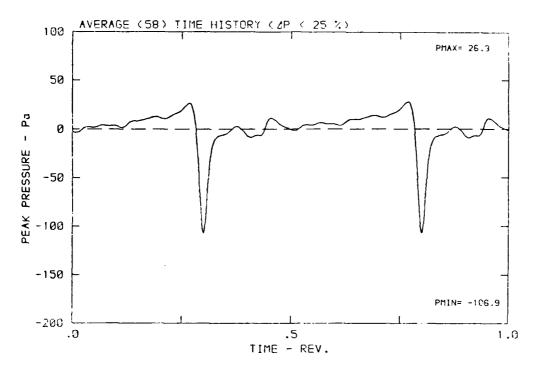


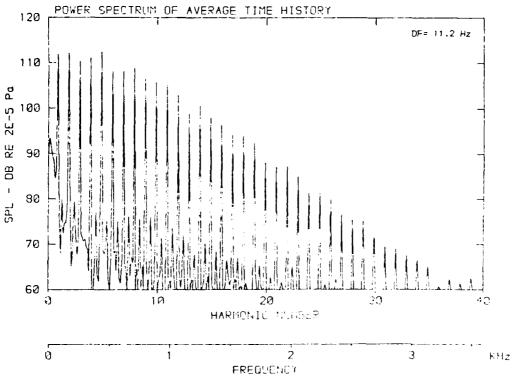
β: 20.8° MH: .8592 n: 2700 rpm γ/u: .255 φ: .0° J: 238.2 r.



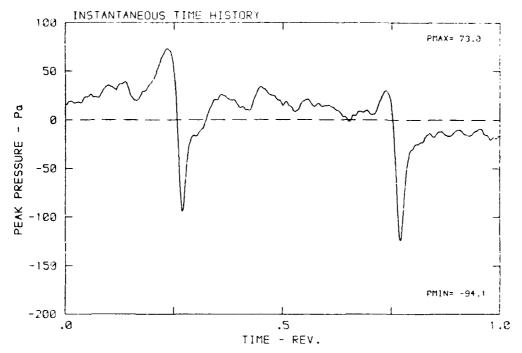


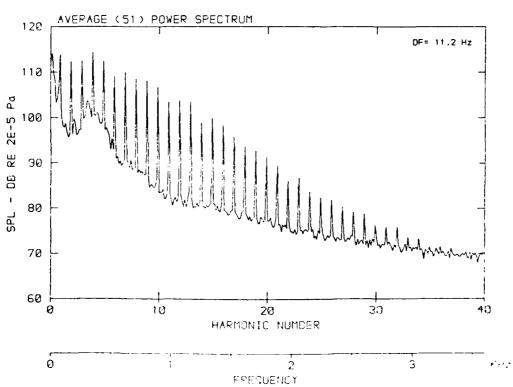
 $\beta\colon\,20.8^{\circ}\,$ MH: .8592 n: 2700 npm v/u: .269 $\varphi\colon\,.0^{\circ}\,$ T: 238.2 K



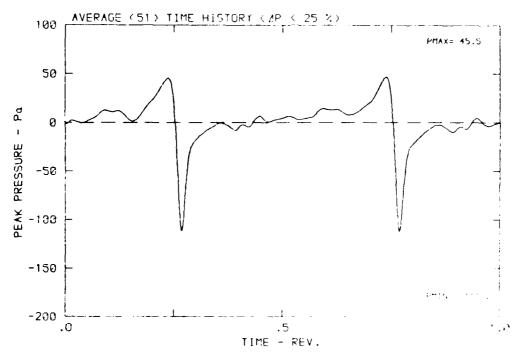


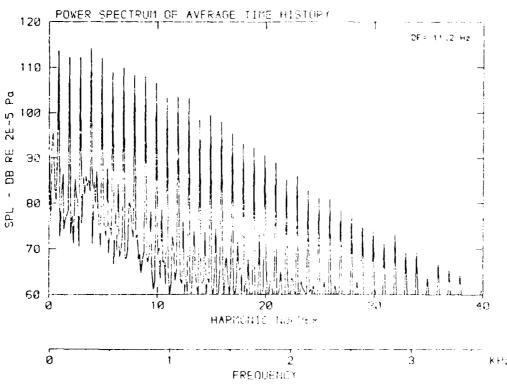
β: 20.8° MH: .8592 n: .2799 npm ... v/u: .269 φ: ... 1: ... 1: ...





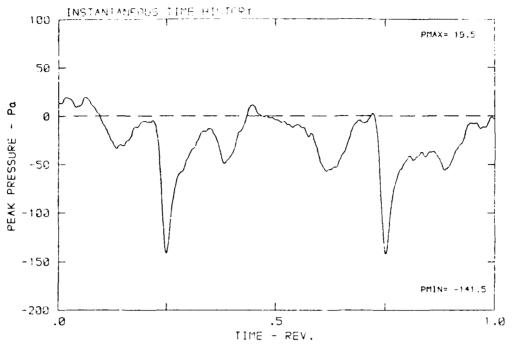
β: 20.8° MH: .8592 n: 2700 rpm v/u: .269 φ: .0° T: 298.2 κ

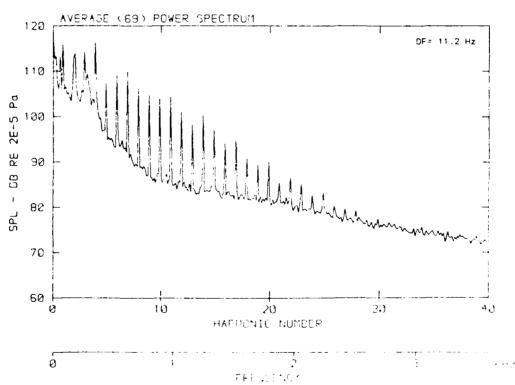




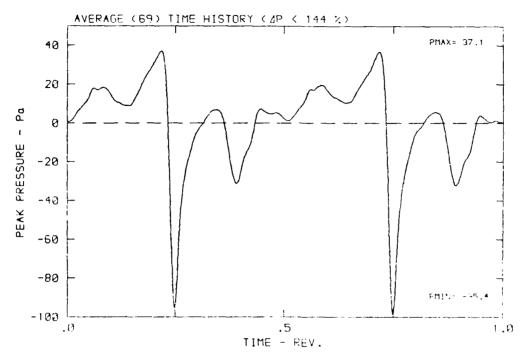
DATA POINT: IN D RUN: 189 MP: 5

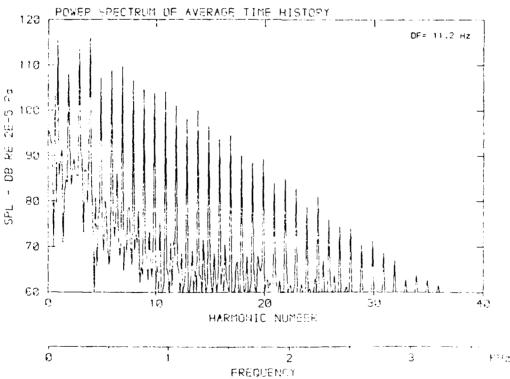
 $\beta: 20.8^{\circ}$ MH: .5532 in: 2700 rpm v/u: .265 $\phi: .0^{\circ}$ T: 255.1



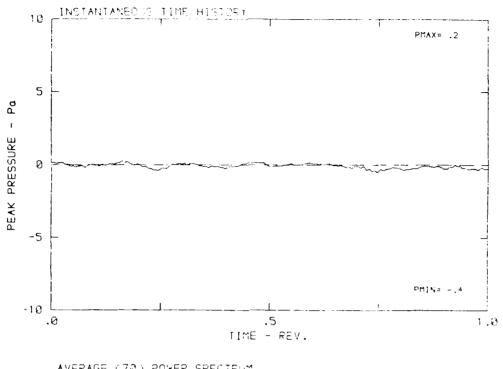


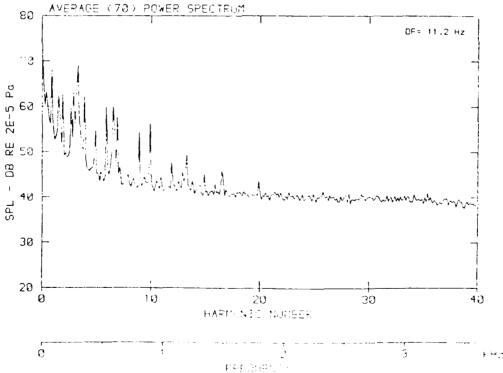
 β : 20.8° MH: .8592 n: 2700 rpm v/u: .269 ϕ : .0° T: 298.2 k



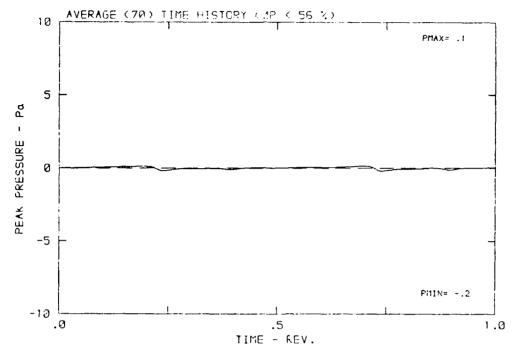


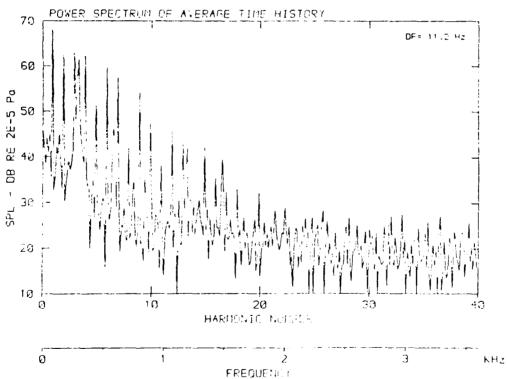
β: 20.8° MH: .8592 n: 2760 apm γ/u: .265 φ: .0° f: 1/3.1





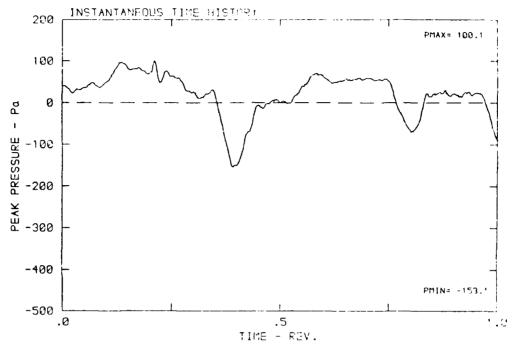
 $β: 20.8^{\circ}$ MH: .8592 n: 2700 rpm v/u: .269 φ: .0° T: 298.2 κ

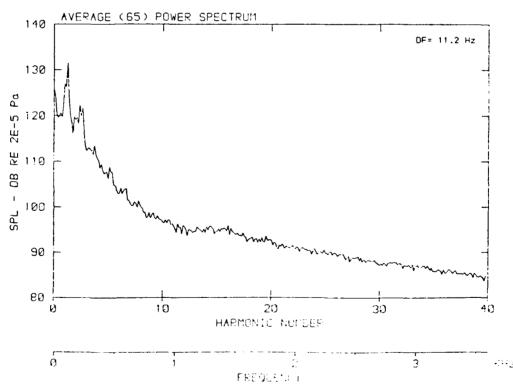




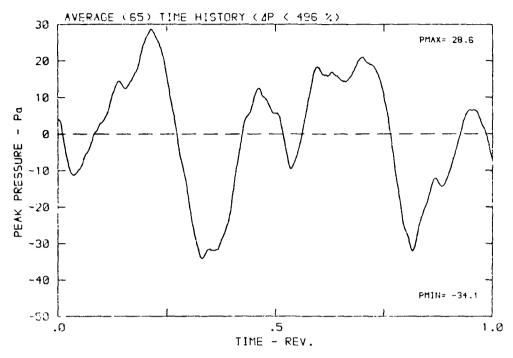
DATA POINT: JN-Z FUN: 18 / MP: 7

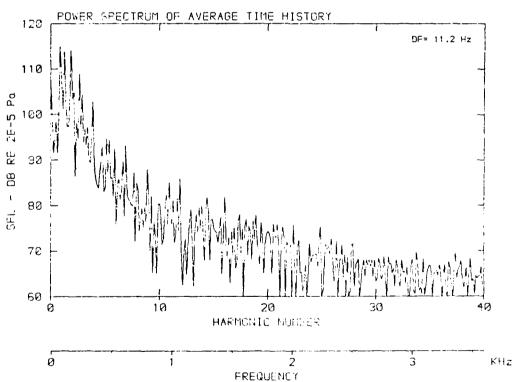
β: 20.8° NH: .8592 n: 2700 r/m γ/ω: ... φ: .0° T:



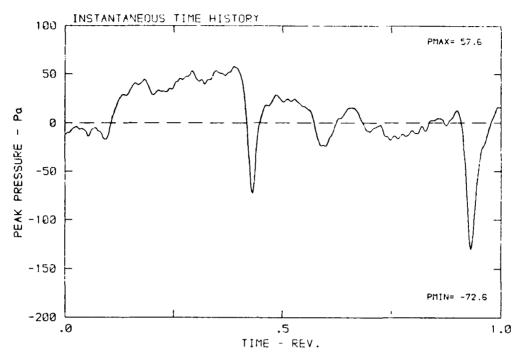


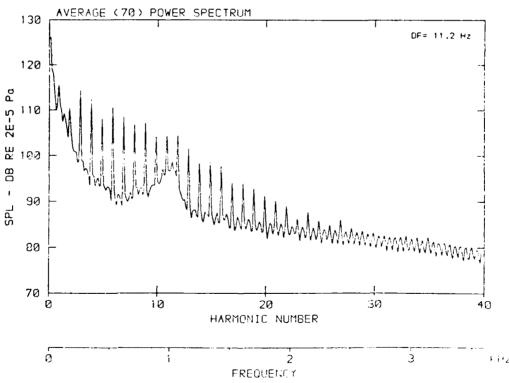
 $β: 20.8^{\circ}$ MH: .8592 n: 2700 rpm v/u: .269 ψ: .0° T: 298.2 K





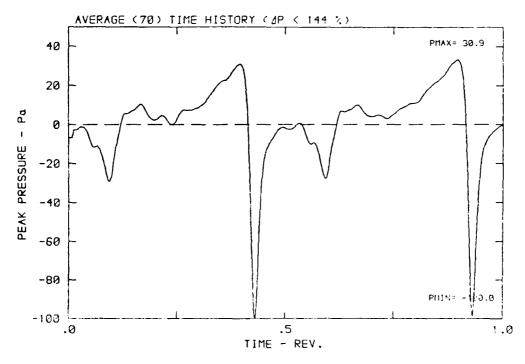
β: 20.8° MH: .8592 n: 2700 rpm v/u: .269 φ: .0° T: 295.2 k



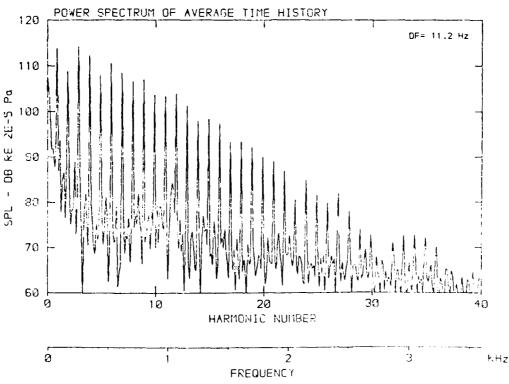


Parades de la proposición de parades de parades de la para

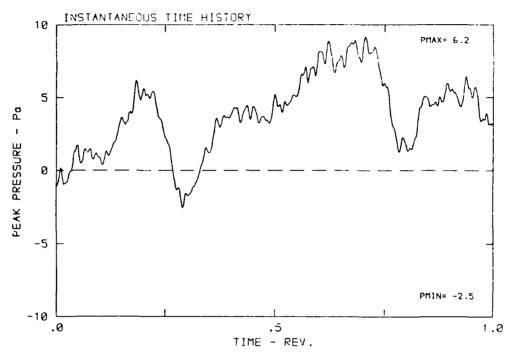
 β : 20.8° MH: .8592 n: 2700 rpm v/u: .269 ϕ : .0° T: 298.2 K

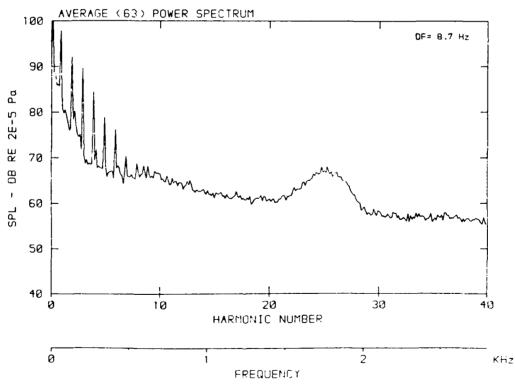


TO SELECT THE PROPERTY OF THE

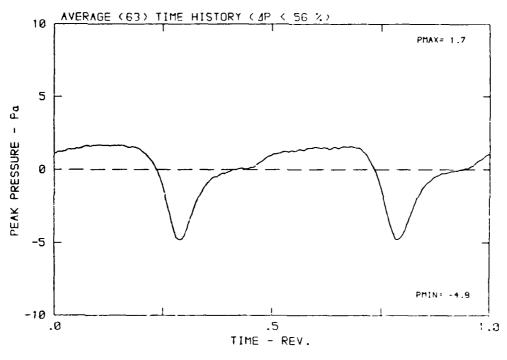


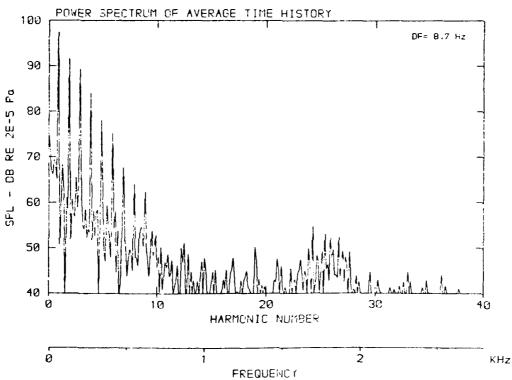
 β : 19.9° MH: .6623 n: 2100 rpm v/u: .231 ϕ : .0° T: 298.2 K



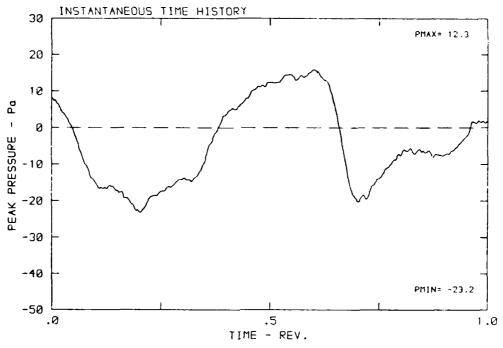


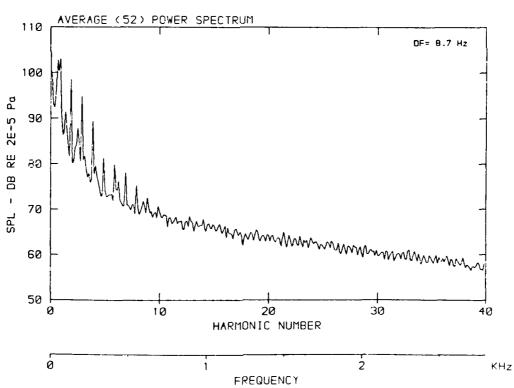
 β : 19.9° MH: .6623 n: 2100 rpm v/u: .231 ϕ : .0° T: 298.2 K



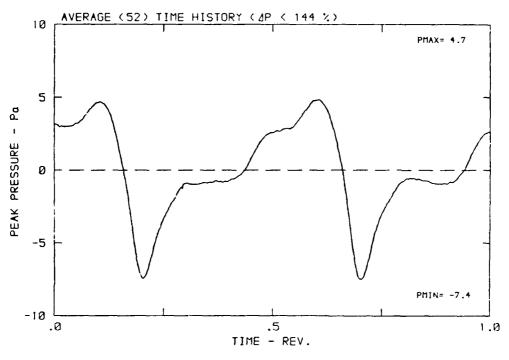


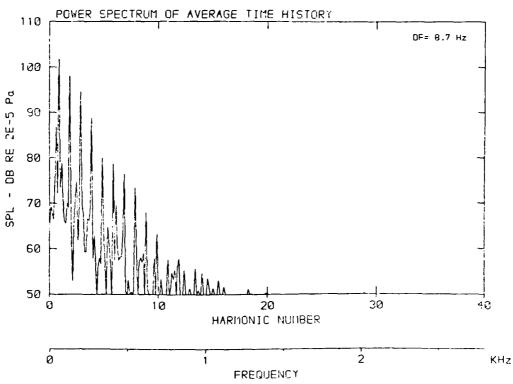
 β : 19.9° MH: .6623 n: 2100 rpm v/u: .231 ϕ : .0° T: 293.2 K



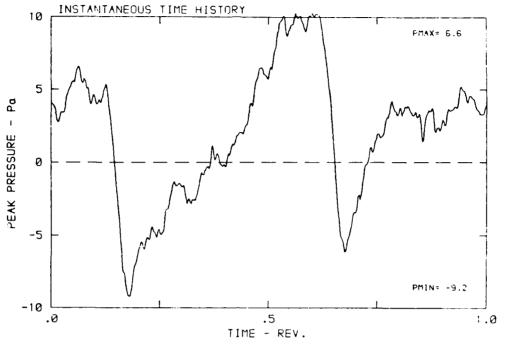


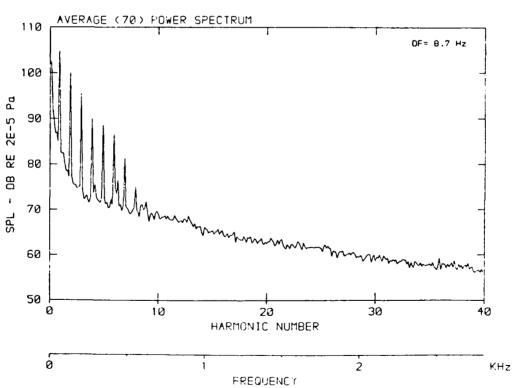
 β : 19.9° MH: .6623 n: 2100 rpm v/u: .231 ϕ : .0° T: 298.2 K



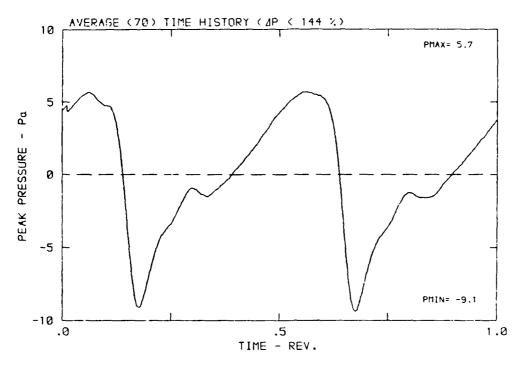


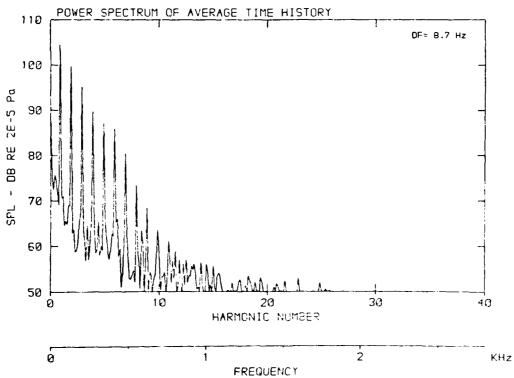
 $\beta: 19.9^{\circ}$ MH: .6623 n: 2100 rpm v/u: .231 $\phi: .0^{\circ}$ T: 29a.2 r



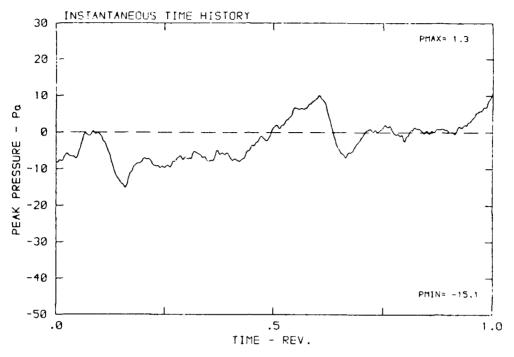


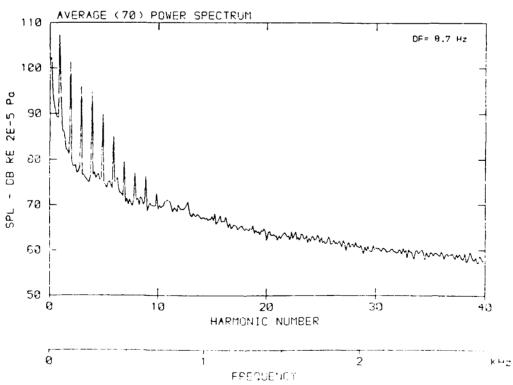
β: 19.9° MH: .6623 n: 2100 rpm ν/u: .231 φ: .0° T: 298.2 K



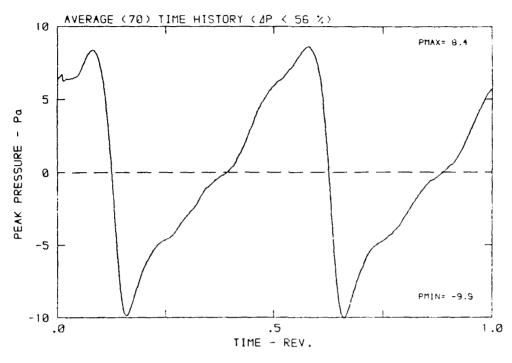


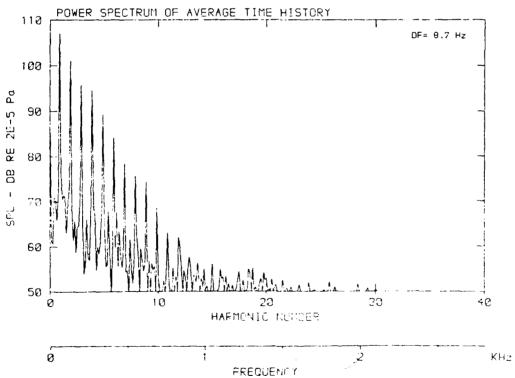
β: 19.9° MH: .6623 n: 2100 rpm v/u: .231 φ: .0° T: 298.2 K



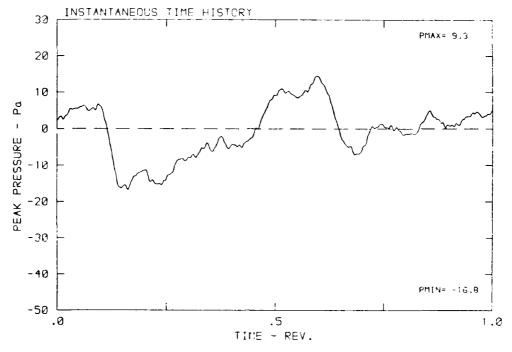


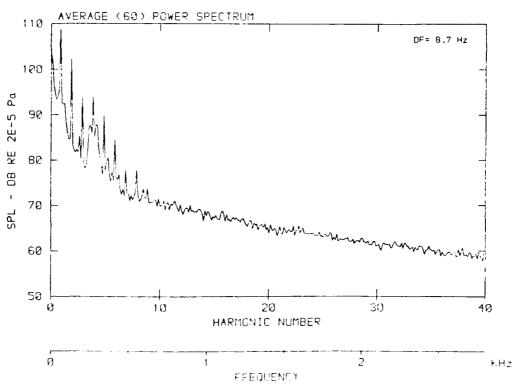
β: 19.9° MH: .6623 n: 2100 rpm v/u: .231 φ: .0° T: 298.2 K



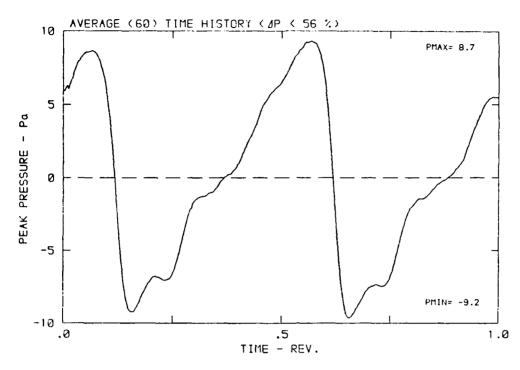


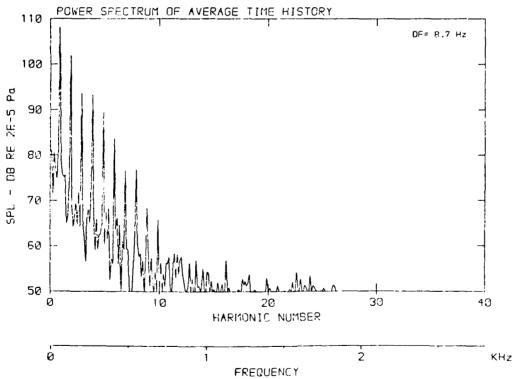
 $\beta\colon\,19.9^{\circ}$ MH: .6623 n: 2100 npm v/u: .231 $\varphi\colon\,.0^{\circ}$ T: 238.2 R



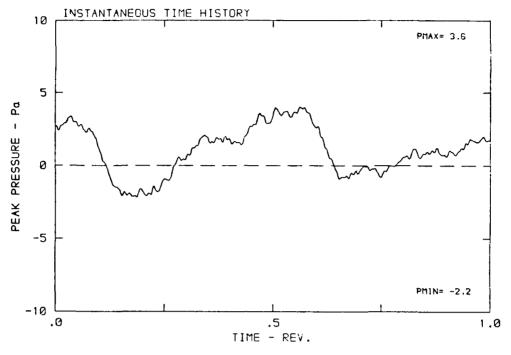


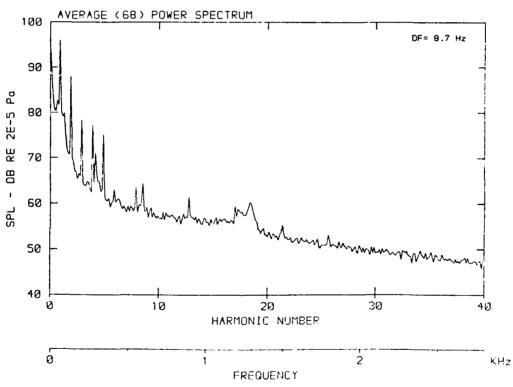
β: 19.9° MH: .6623 n: 2100 rpm ν/u: .231 φ: .0° T: 298.2 K



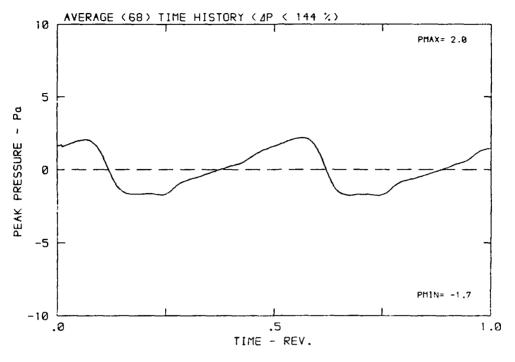


β: 19.9° MH: .6623 n: 2100 rpm v/u: .231 φ: .0° T: 298.2 ×

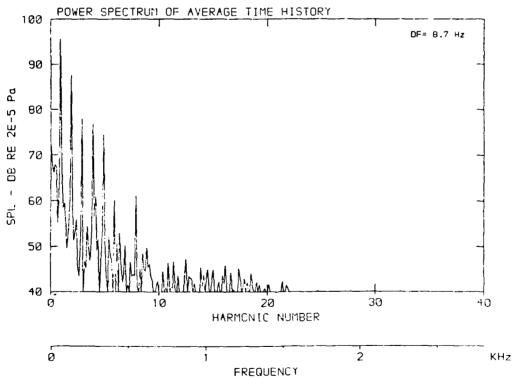




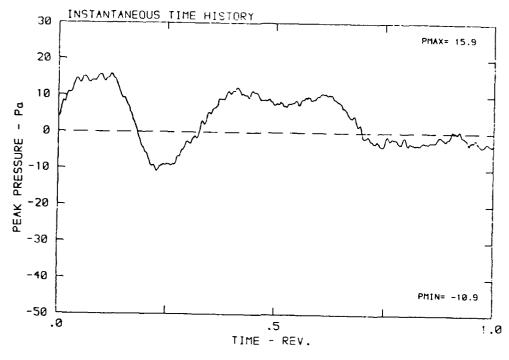
 β : 19.9° MH: .6623 n: 2100 rpm v/u: .231 ϕ : .0° T: 298.2 K

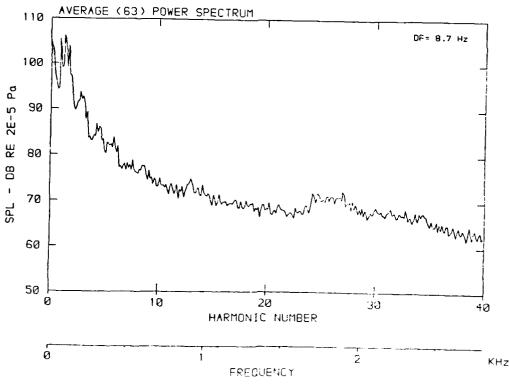


west assesses appropriate reservers designated besidessesses.

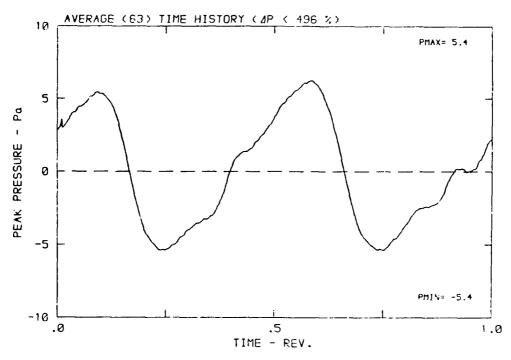


 β : 19.9° MH: .6623 n: 2100 npm v/u: .231 ϕ : .0° T: 295.2 K

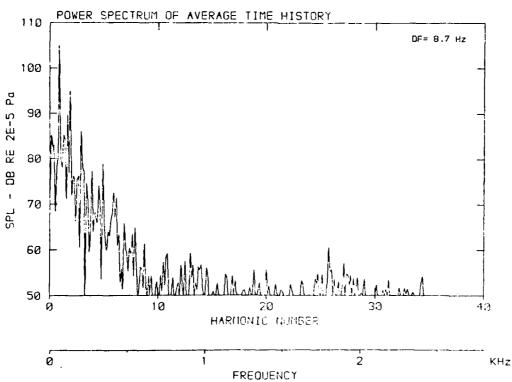




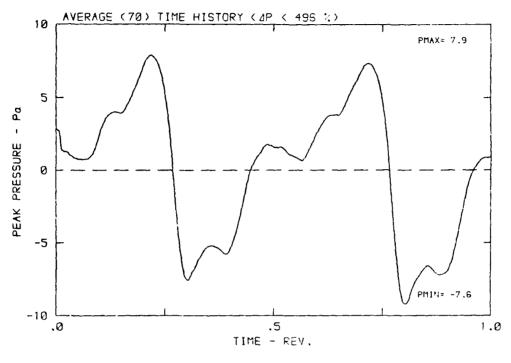
 $β: 19.9^{\circ}$ MH: .6623 n: 2100 rpm ν/u: .231 $φ: .0^{\circ}$ T: 298.2 K

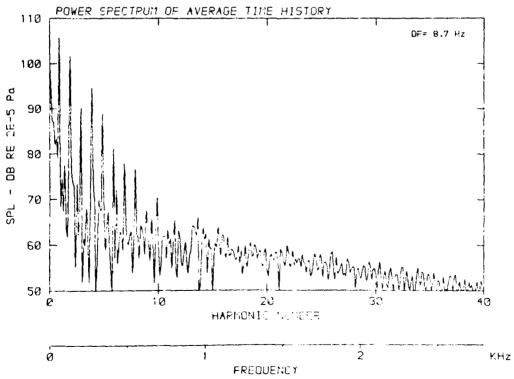


SERVICE ASSESSMENT OF THE SERVICE OF

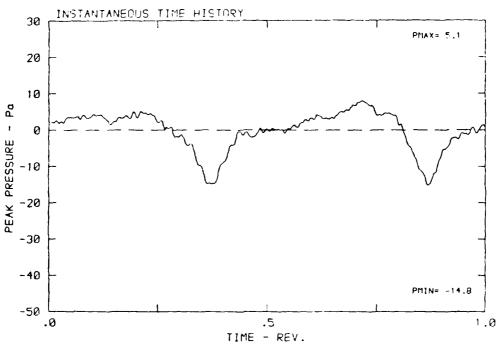


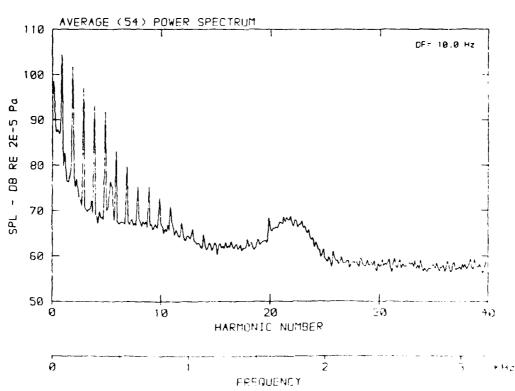
 β : 19.9° MH: .6623 n: 2100 rpm v/u: .231 ϕ : .0° T: 298.2 K



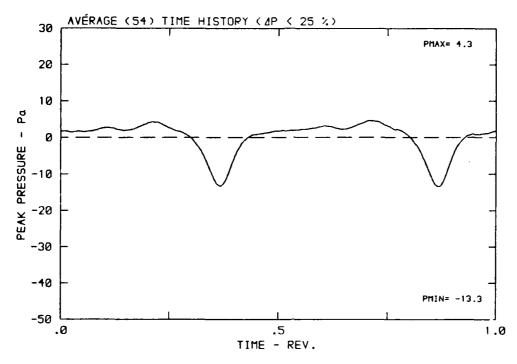


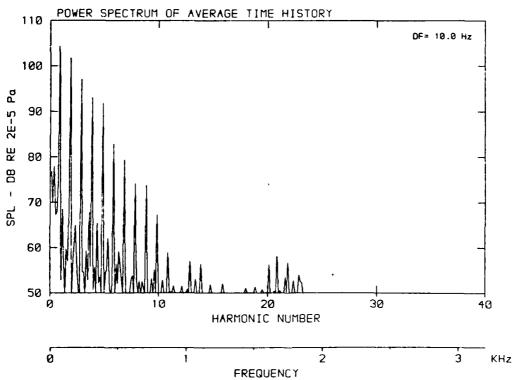
 $\beta\colon\,19.9^{\circ}\,$ MH: .7516 n: 2400 npm v/u: .202 $\varphi\colon\,.0^{\circ}\,$ T: 298.9 K



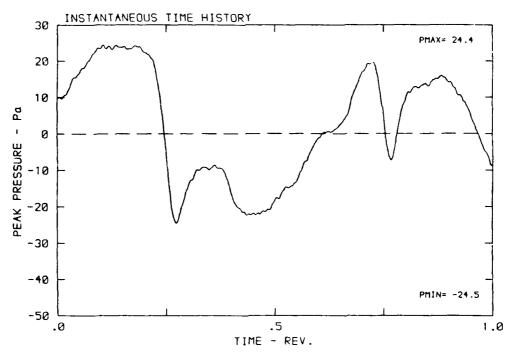


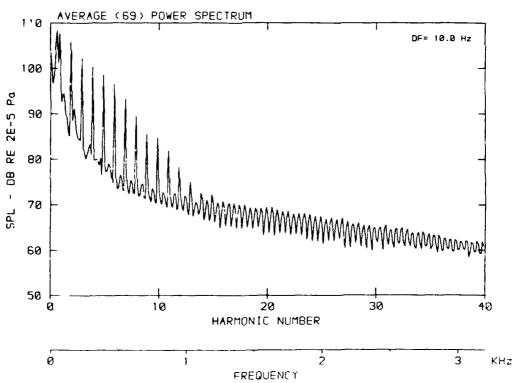
 β : 19.9° MH: .7516 n: 2400 rpm v/u: .202 ϕ : .0° T: 298.9 K



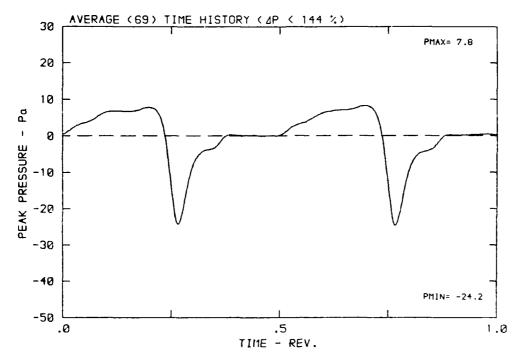


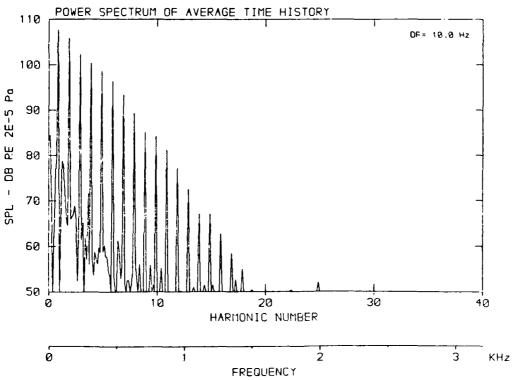
 β : 19.9° MH: .7516 n: 2400 rpm v/u: .202 ψ : .0° T: 298.9 K



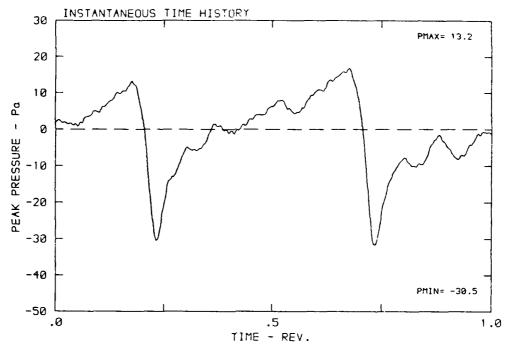


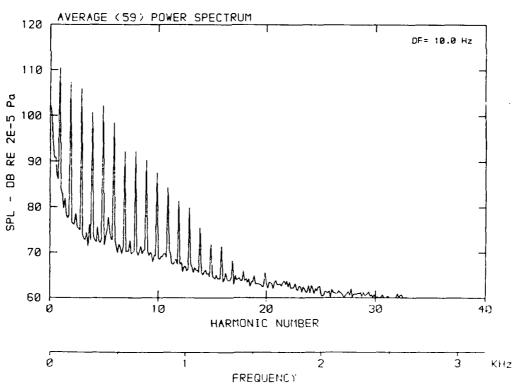
 β : 19.9° MH: .7516 n: 2400 rpm v/u: .202 ϕ : .0° T: 298.9 K



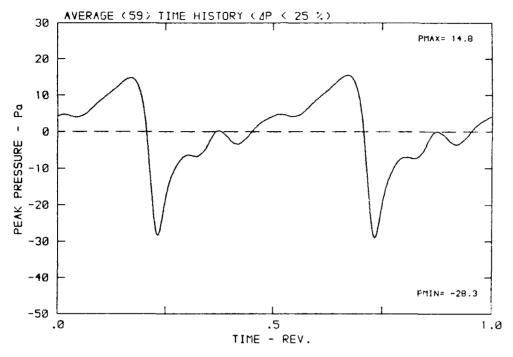


 β : 19.9° MH: .7516 n: 2400 rpm v/u: .202 ψ : .0° T: 298.9 K

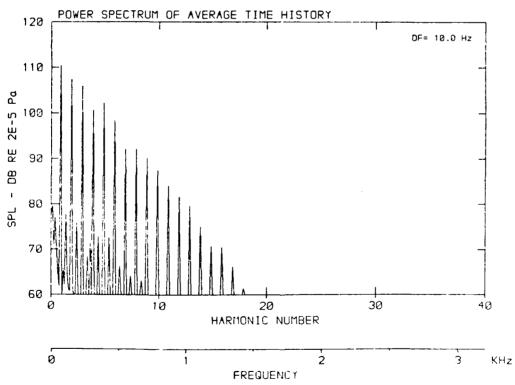




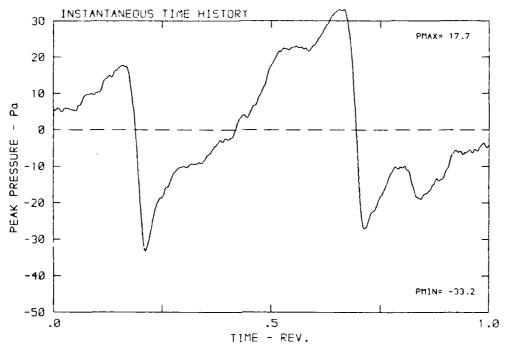
 β : 19.9° MH: .7516 n: 2400 rpm v/u: .202 ϕ : .0° T: 298.9 K

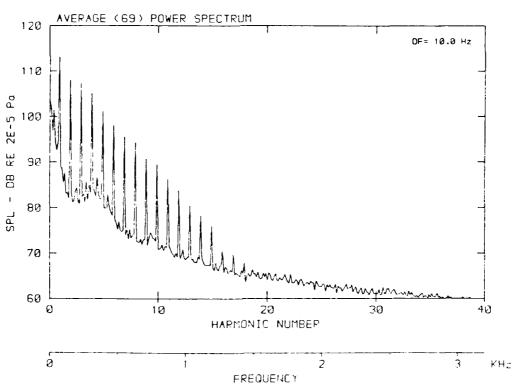


ASSEST RESERVANCE CONTRACTOR STANDARD MANAGEMENT MESSAGES

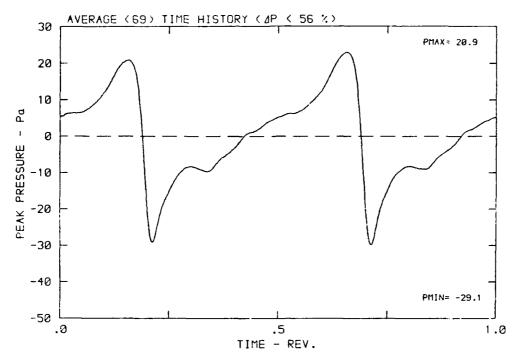


 $\beta: 19.9^{\circ}$ MH: .7516 n: 2400 npm v/u: .202 $\phi: .0^{\circ}$ T: 298.3

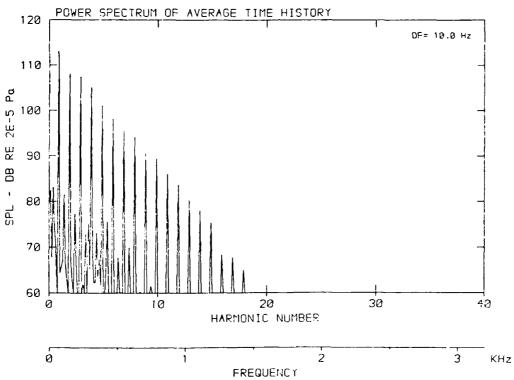




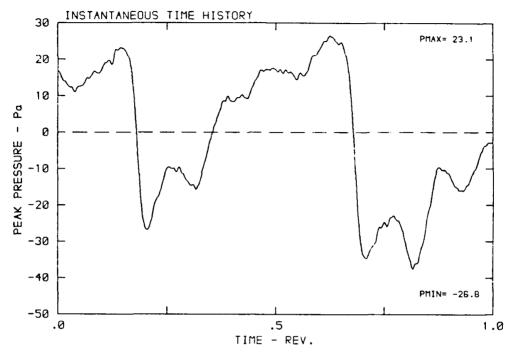
 β : 19.9° MH: .7516 n: 2400 rpm v/u: .202 ϕ : .0° T: 298.9 K

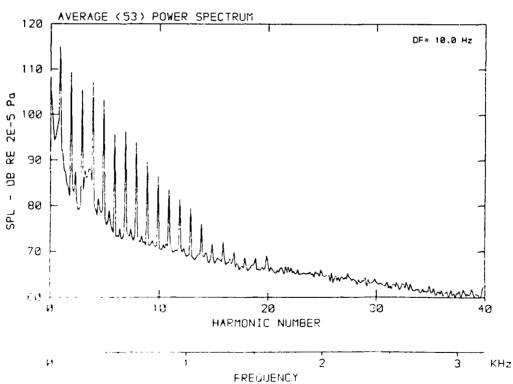


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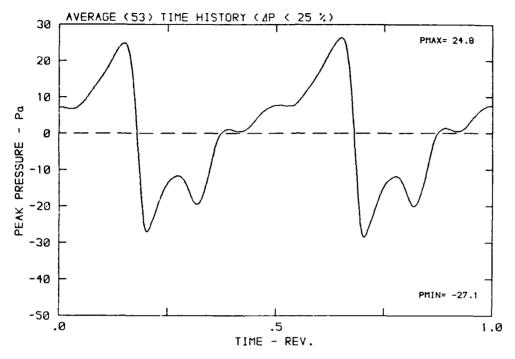


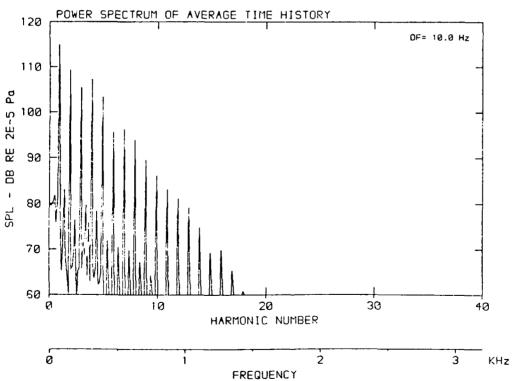
 $\beta\colon\,19.9^{\circ}\,$ MH: .7516 n: 2400 rpm v/u: .202 $\,\varphi\colon\,.0^{\circ}\,$ T: 298.9 K



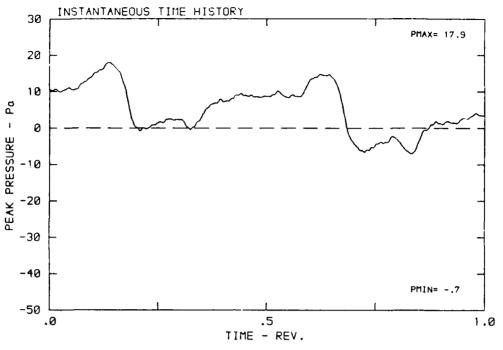


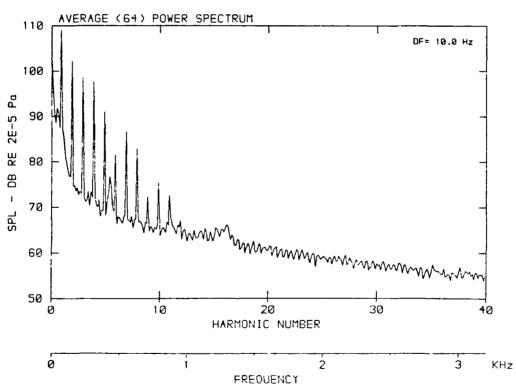
 β : 19.9° MH: .7516 n: 2400 rpm v/u: .202 ϕ : .0° T: 298.9 K



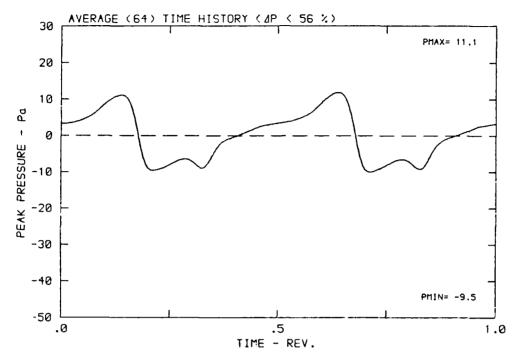


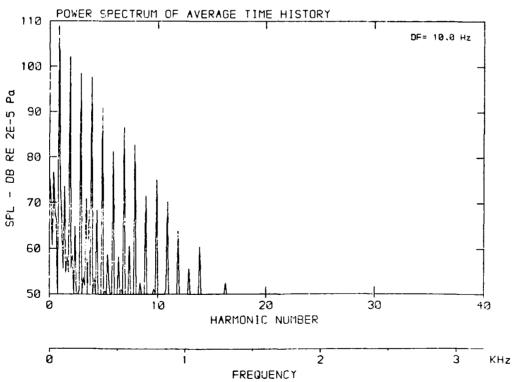
β: 19.9° MH: .7516 n: 2400 rpm v/u: .202 φ: .0° T: 298.9 K



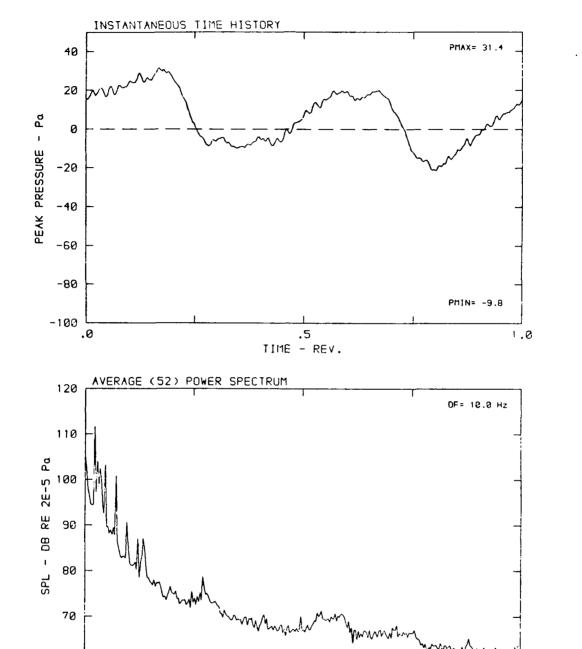


 β : 19.9° MH: .7516 n: 2400 rpm v/u: .202 ϕ : .0° T: 298.9 K





β: 19.9° MH: .7516 n: 2400 rpm ν/u: .202 φ: .0° T: 298.9 K



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HARMONIC NUMBER

FREQUENCY

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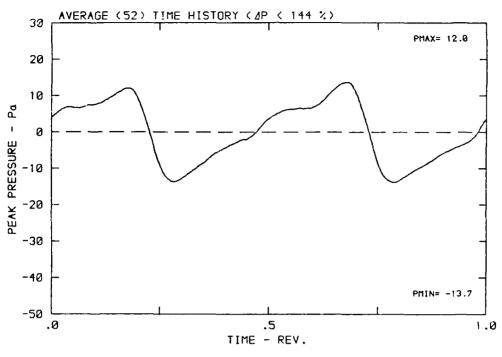
KHz

60

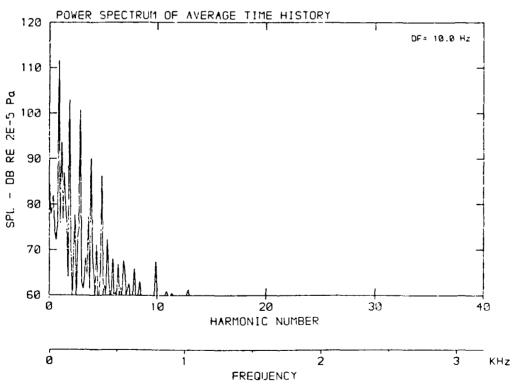
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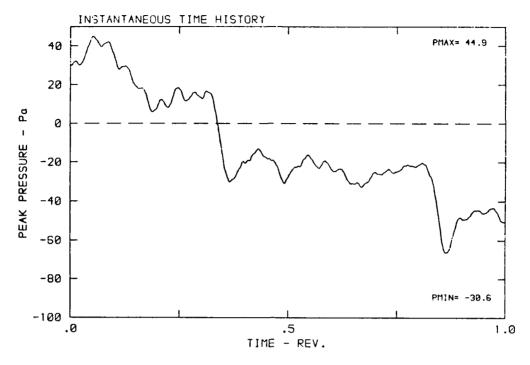
 β : 19.9° MH: .7516 n: 2400 rpm v/u: .202 ϕ : .0° T: 298.9 K

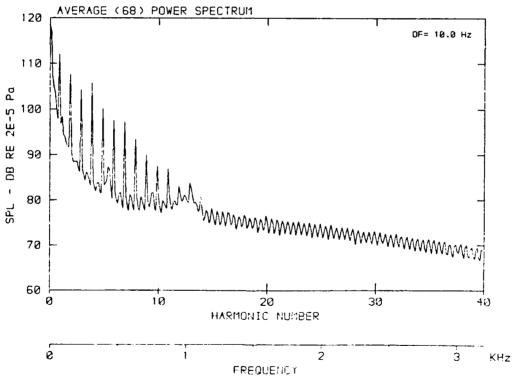


SECTION OF THE PROPERTY OF THE

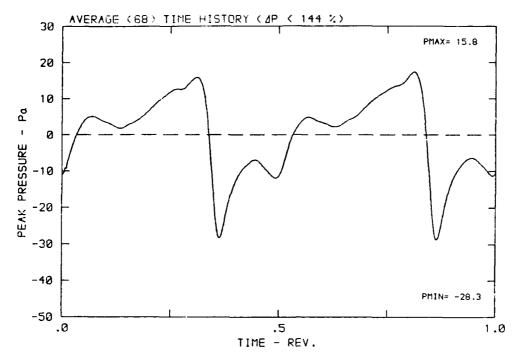


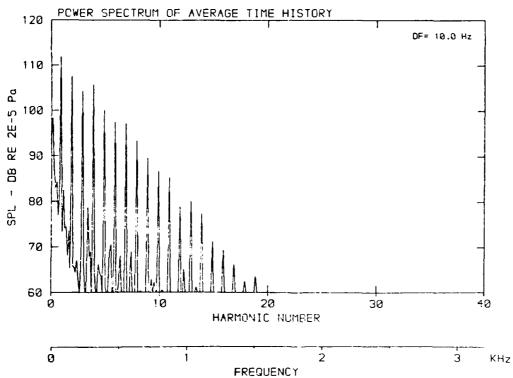
 β : 19.9° i1H: .7516 n: 2400 rpm v/u: .202 ϕ : .0° T: 258.9 K



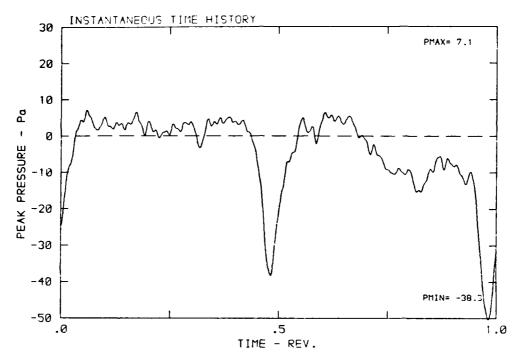


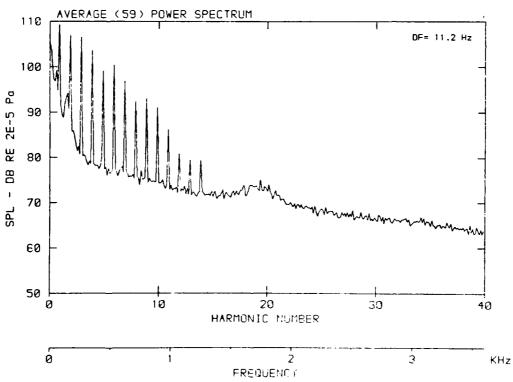
β: 19.9° MH: .7516 n: 2400 rpm v/u: .202 φ: .0° T: 298.9 K



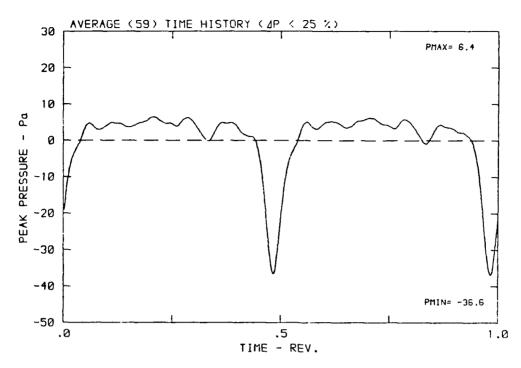


β: 19.9° MH: .8582 n: 2700 rpm ν/u: .267 φ: .0° T: 298.6 K

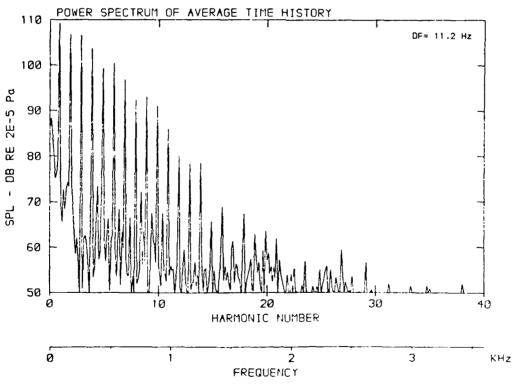




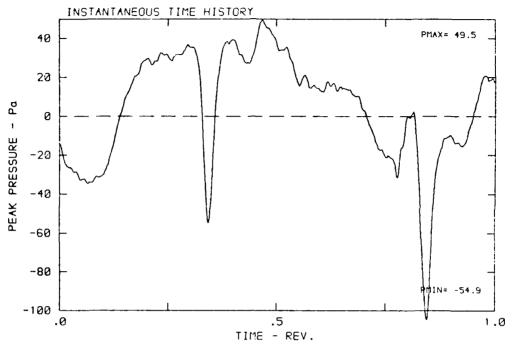
 β : 19.9° MH: .8582 n: 2700 rpm v/u: .267 ϕ : .0° T: 298.6 K

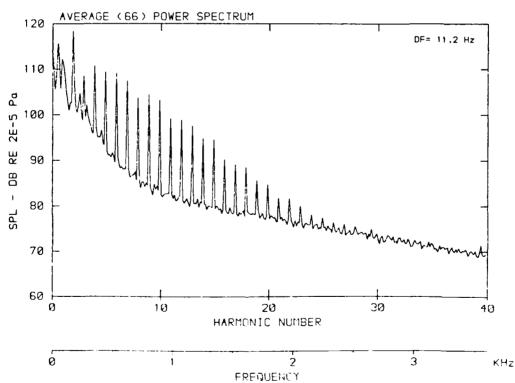


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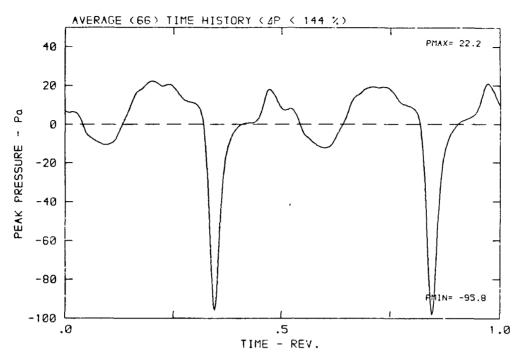


β: 19.9° MH: .8582 n: 2700 rpm ν/u: .267 φ: .0° T: 298.6 K

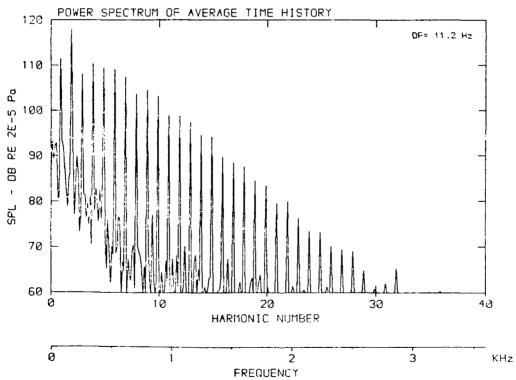




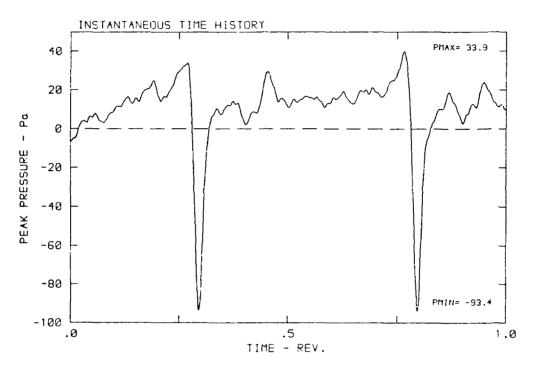
 β : 19.9° MH: .8582 n: 2700 rpm v/u: .267 ϕ : .0° T: 298.6 K

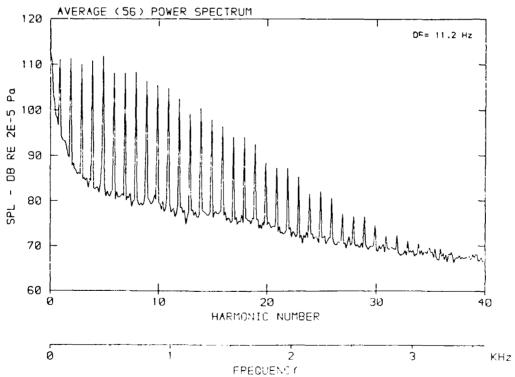


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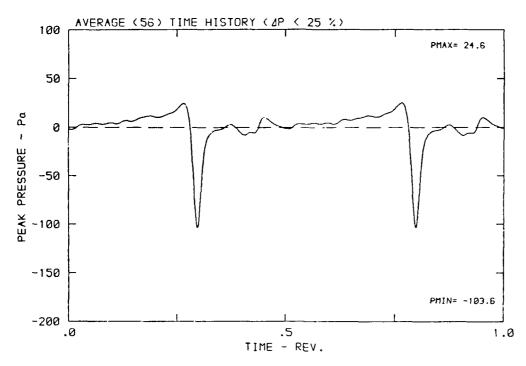


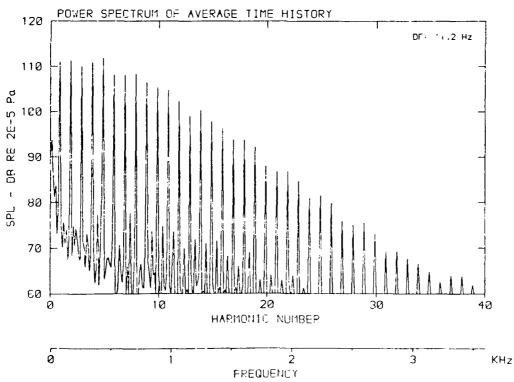
β: 19.9° MH: .8582 n: 2700 npm γ/u: .267 φ: .0° T: 298.6 K



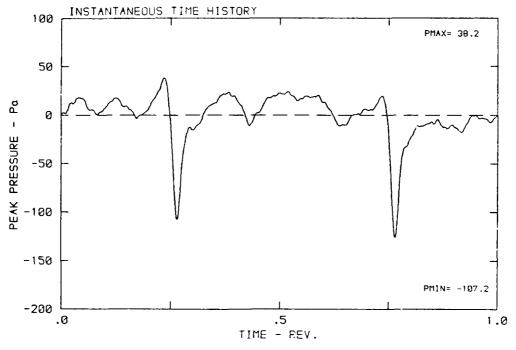


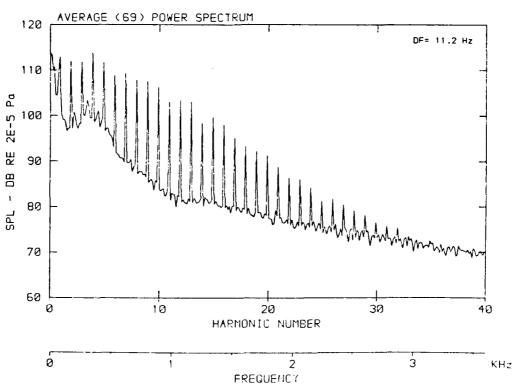
 β : 19.9° MH: .8582 n: 2700 rpm v/u: .267 ϕ : .0° T: 298.6 K



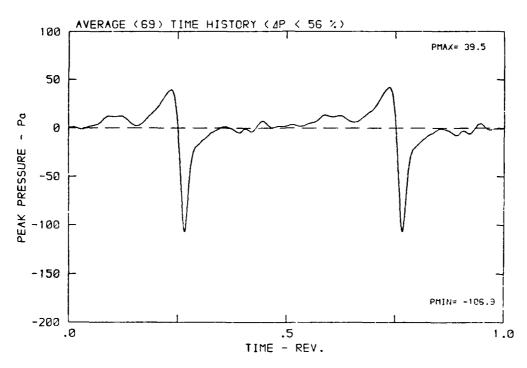


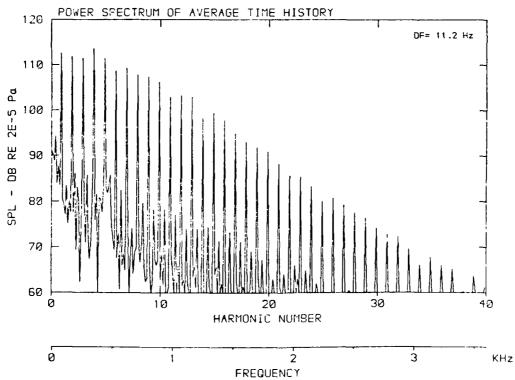
 β : 19.9° MH: .8582 n: 2700 rpm v/u: .267 ϕ : .0° T: 298.6 K



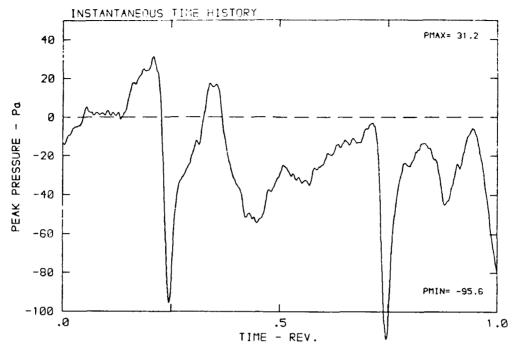


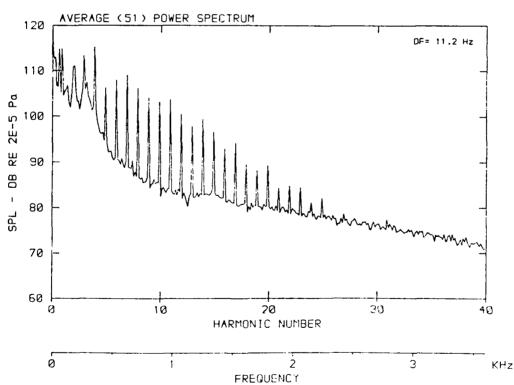
 β : 19.9° MH: .8582 n: 2700 rpm v/u: .267 ϕ : .0° T: 298.6 K





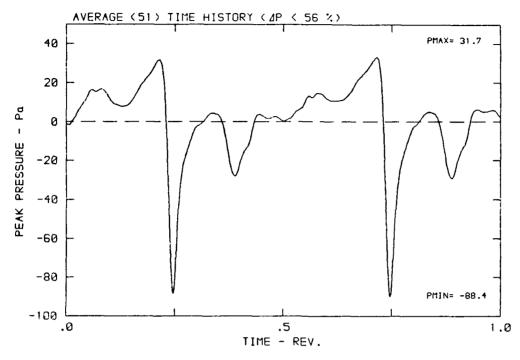
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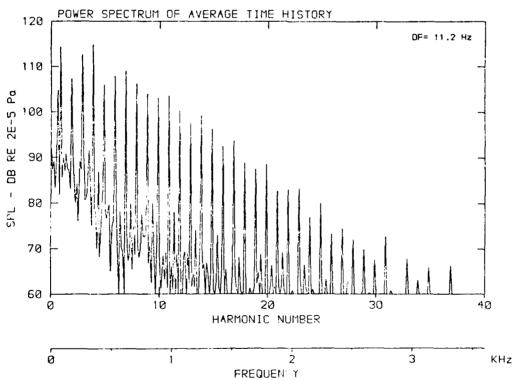




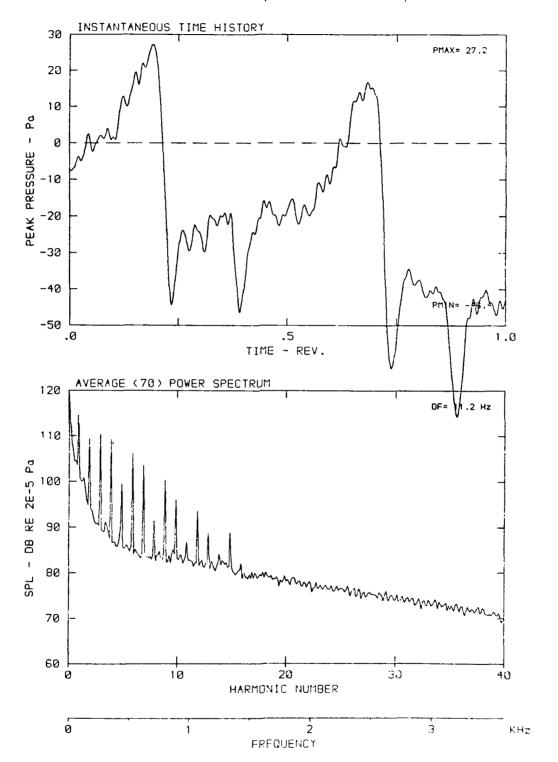
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β: 19.9° MH: .8582 n: 2700 rpm ν/u: .267 ψ: .0° I: 298.6 K

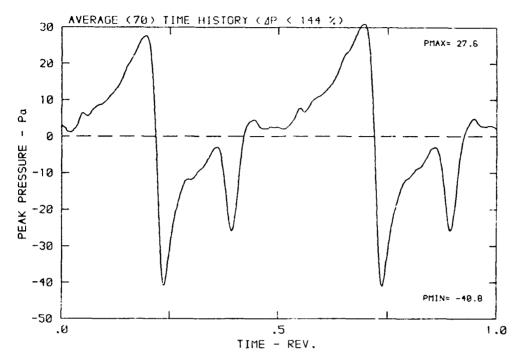




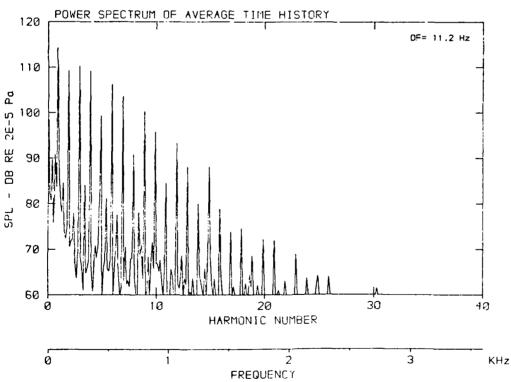
β: 19.9° MH: .8582 n: 2700 npm ν/u: .267 φ: .0° T: 293.5 K



β: 19.9° MH: .8582 n: 2700 rpm v/u: .267 φ: .0° T: 298.6 κ



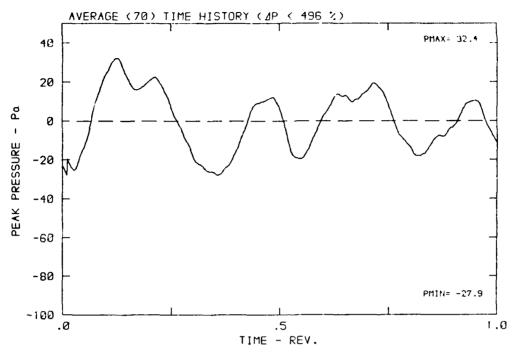
SOUR MANAGEMENT CONTROL OF CONTRO



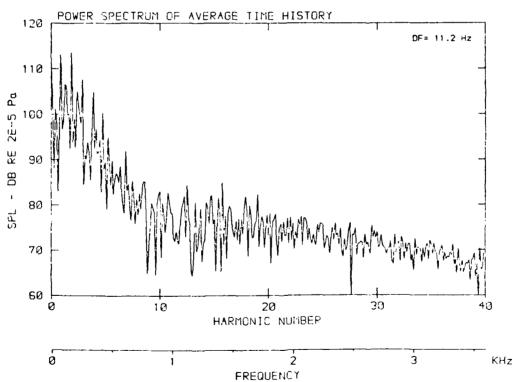
β: 19.9° MH:Λ.8582 n: 2700 rpm γ/u: .267 φ: .0° T: 298.5 k MIME HISTORY TANEDUS 200 PMAX= 305.1 100 0 g PRESSURE - 200 - 200 PEAK -360 -400 PMIN= -564.5 -500 1.0 TIME - REV. AVERAGE (70) POWER SPECTRUM DF= 11.2 Hz 132 2E-5 Pa W 110 90 100 100 90 80 10 20 30 HARMONIC NUMBER

FREQUENCY

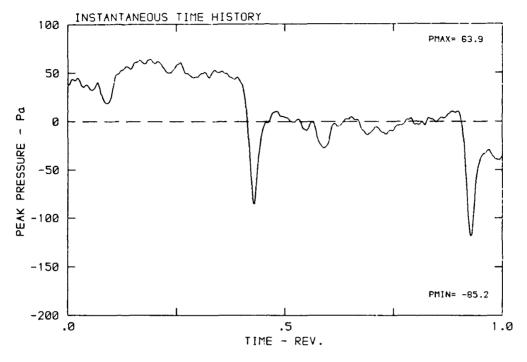
 β : 19.9° MH: .8582 n: 2700 rpm v/u: .267 ϕ : .0° T: 298.6 K

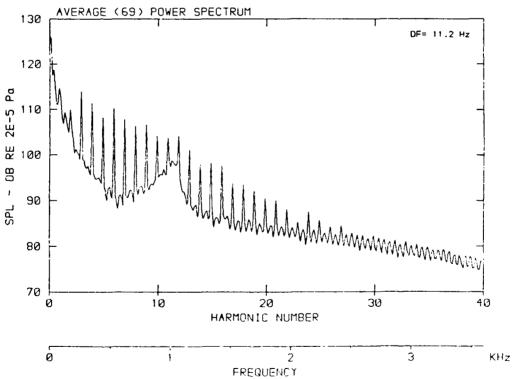


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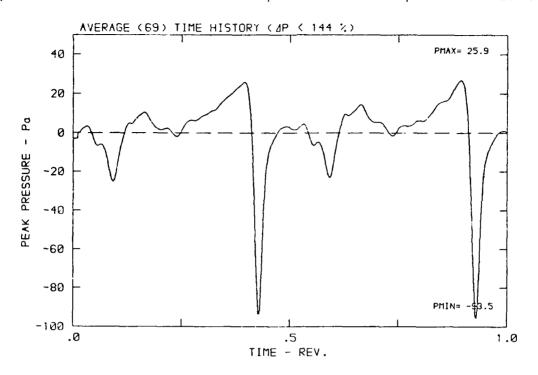


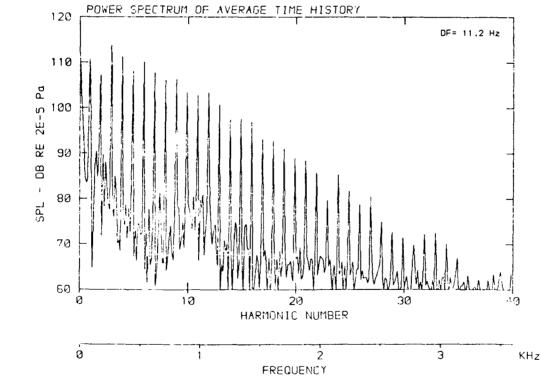
 β : 19.9° MH: .8582 n: 2700 rpm v/u: .267 ϕ : .0° T: 298.6 K



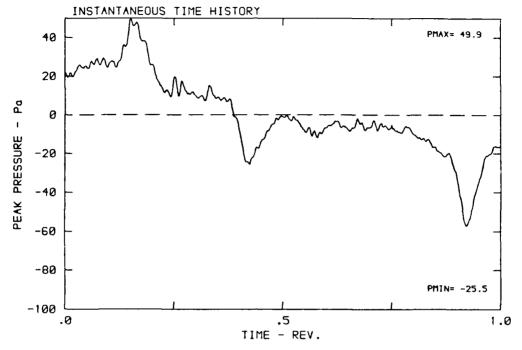


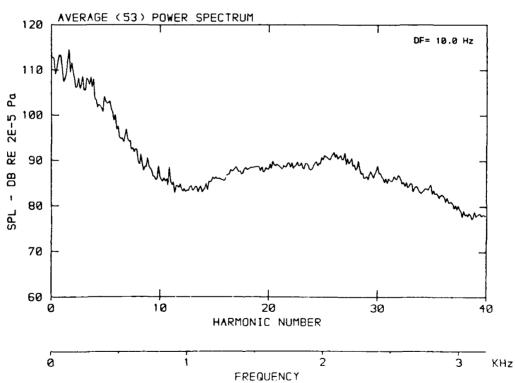
 $\beta\colon\,19.9^{\circ}\,$ MH: .8582 n: 2700 rpm v/u: .267 $\,\psi\colon\,.0^{\circ}\,$ T: 298.6 K



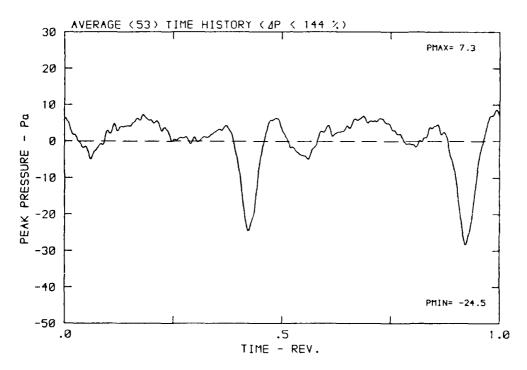


 β : 21.6° MH: .7972 n: 2400 rpm v/u: .302 ϕ : .0° T: 278.6 K

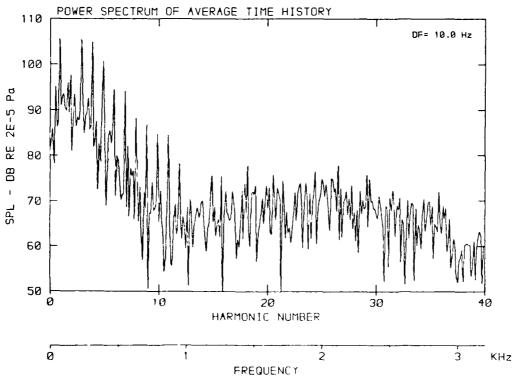




 $\beta\colon\,21.6^{\circ}\,$ MH: .7972 n: 2400 rpm v/u: .302 $\varphi\colon\,.0^{\circ}\,$ T: 278.6 K

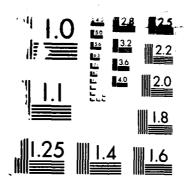


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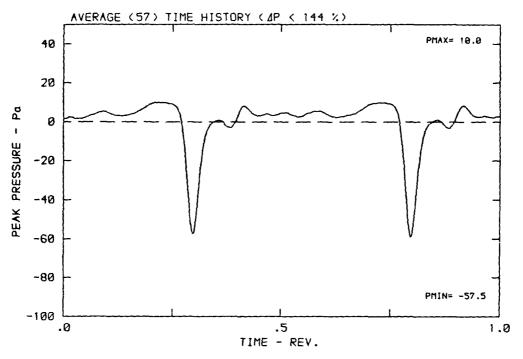
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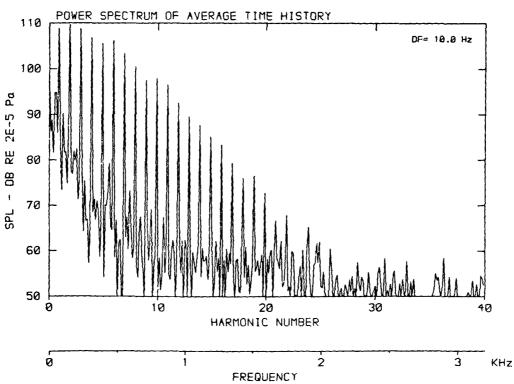
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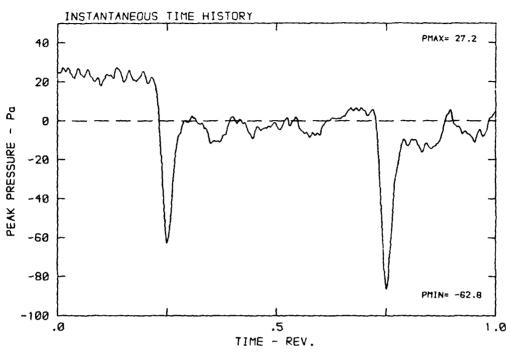
 β : 21.6° MH: .7972 n: 2400 rpm v/u: .302 ϕ : .0° T: 278.6 K

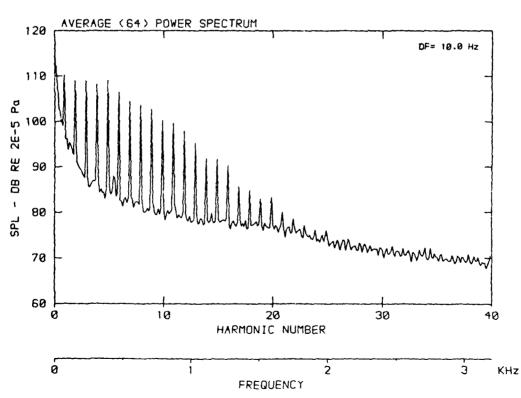
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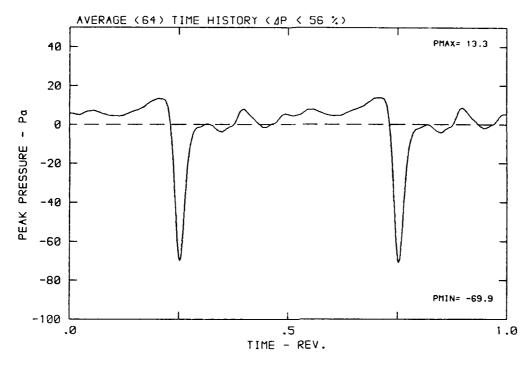


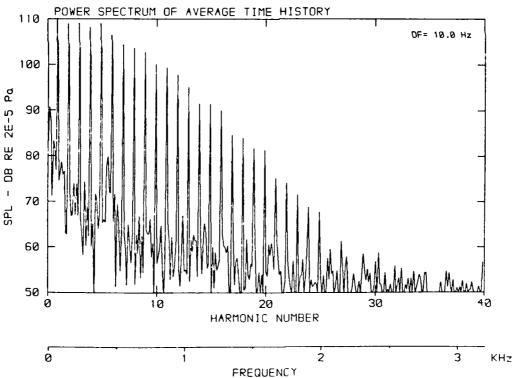
 $\beta\colon\,21.6^{\circ}\,$ MH: .7972 n: 2400 rpm v/u: .302 $\varphi\colon\,.0^{\circ}\,$ T: 278.6 K





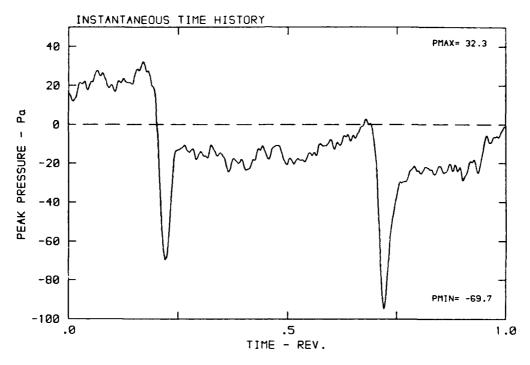
 β : 21.6° MH: .7972 n: 2400 rpm v/u: .302 ϕ : .0° T: 278.6 K

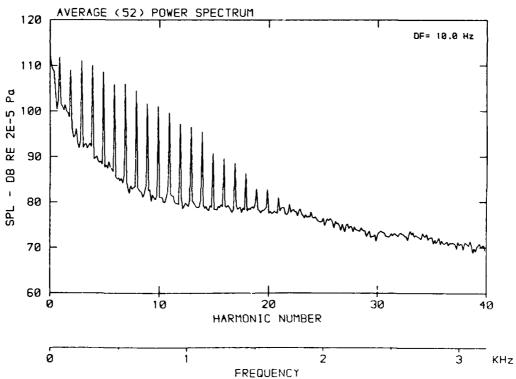




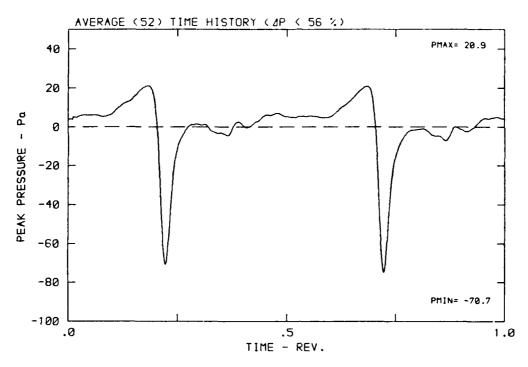
MODELLO MANAGEMENT SERVICES SERVICES AND MANAGEMENT AND MANAGEMENT

 β : 21.6° MH: .7972 n: 2400 rpm v/u: .302 ϕ : .0° T: 278.6 K

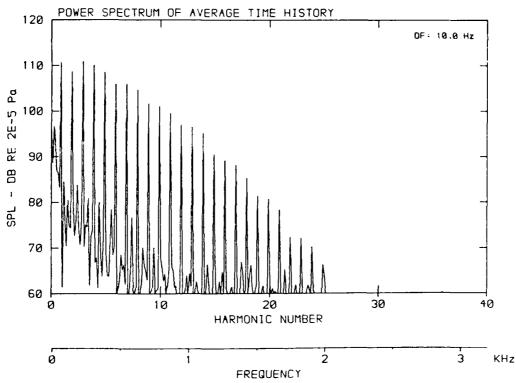




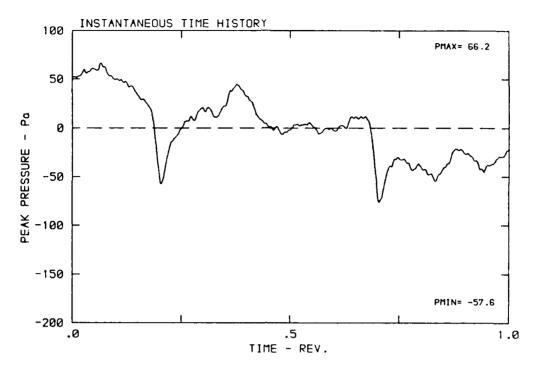
 β : 21.6° MH: .7972 n: 2400 rpm v/u: .302 ϕ : .0° T: 278.6 K

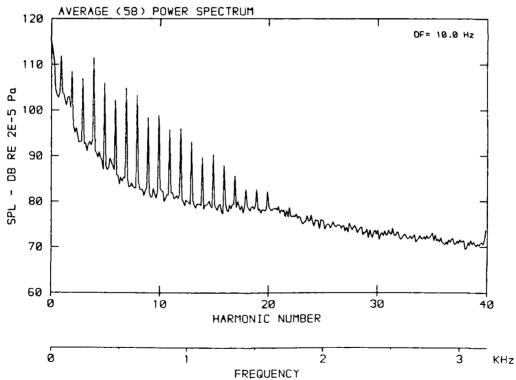


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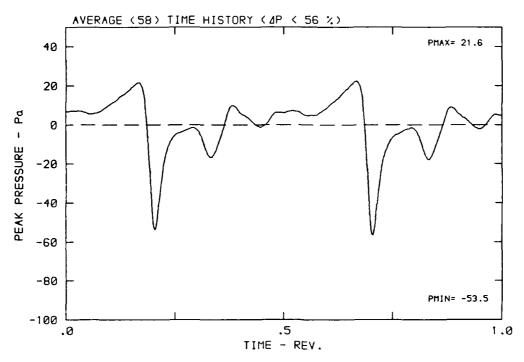


 β : 21.6° MH: .7972 n: 2400 rpm v/u: .302 ϕ : .0° T: 278.6 K

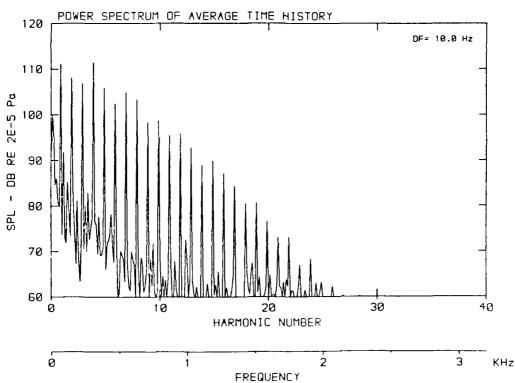




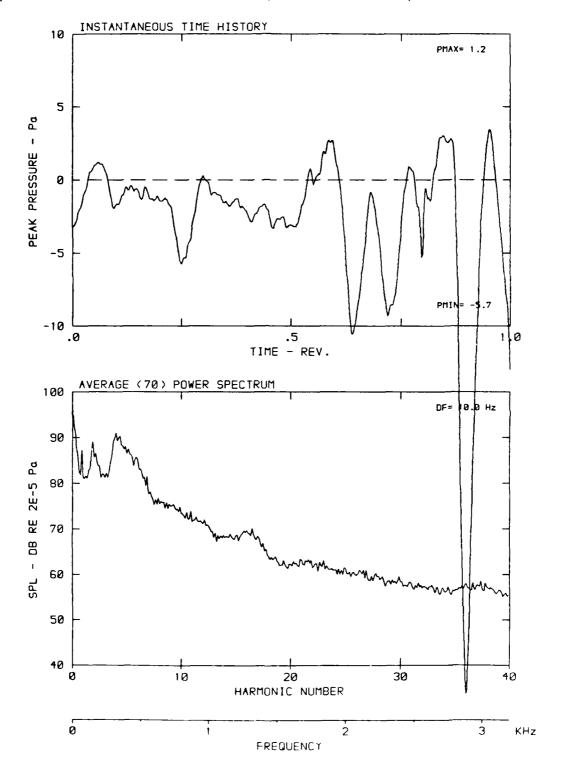
 β : 21.6° MH: .7972 n: 2400 rpm v/u: .302 ϕ : .0° T: 278.6 K



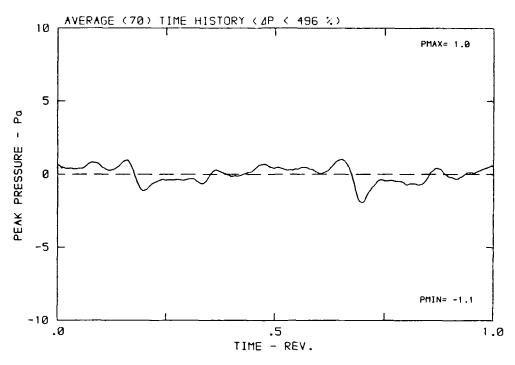
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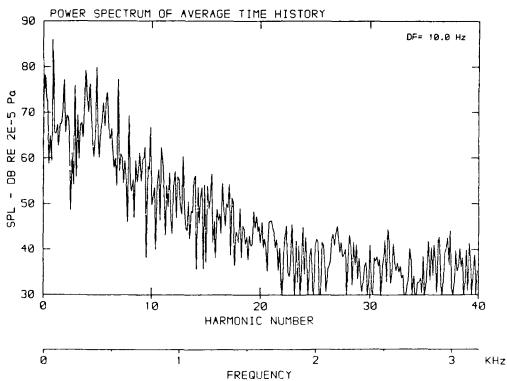


 β : 21.6° MH: .7972 n: 2400 rpm v/u: .302 ϕ : .0° T: 278.6 K



 β : 21.6° MH: .7972 n: 2400 rpm $\mbox{ v/u}$: .302 $\mbox{ }\phi$: .0° T: 278.6 K

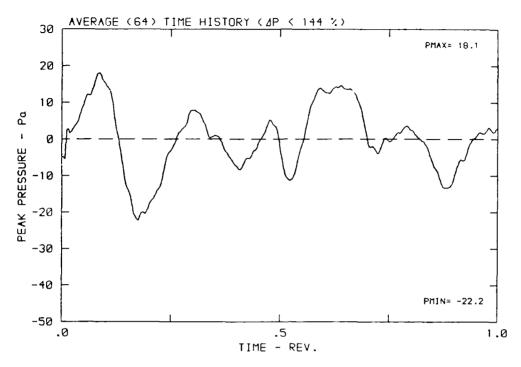


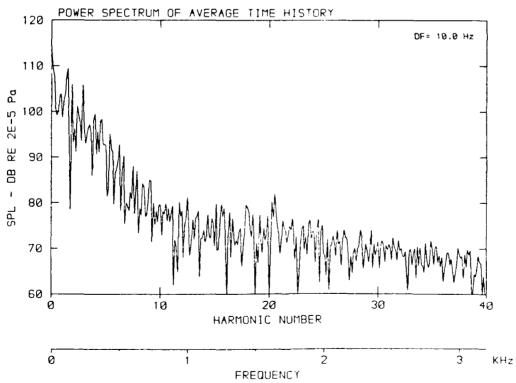


POINT: HC-1 MP: DATA RUN: 39 β : 21.6° MH: .7972 n: 2400 rpm v/u: .302 ϕ : .0° T: 278.6 K INSTANTANEOUS TYME HISTORY 200 100 Pa PRESSURE - 200 g -300 X -400 PMIN= -143.8 -500 1.0 TIME - REV. AVERAGE (64) POWER SPECTRUM DF= 10.0 Hz 130 2E-5 021 021 ۳ 110 08 SPL 100 90 80 10 20 30 40 HARMONIC NUMBER KHz

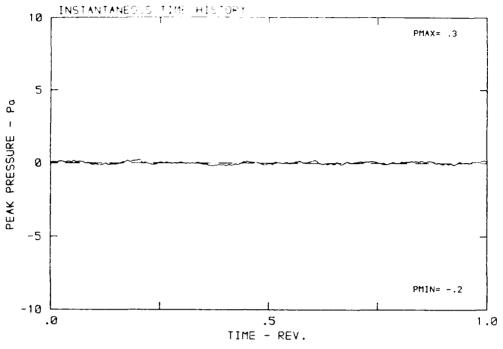
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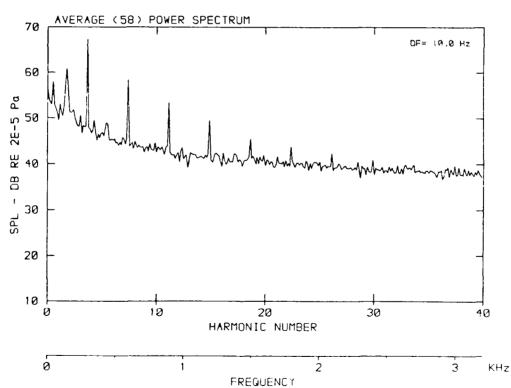
 β : 21.6° MH: .7972 n: 2400 rpm v/u: .302 ϕ : .0° T: 278.6 K



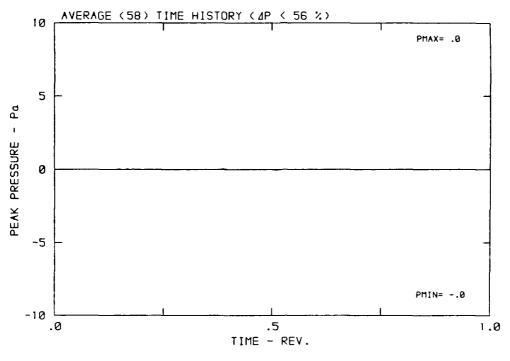


β: 21.6° MH: .7972 κ: 1400 κρω γνω: .302 φ: .0° Τ: 278.8 κ

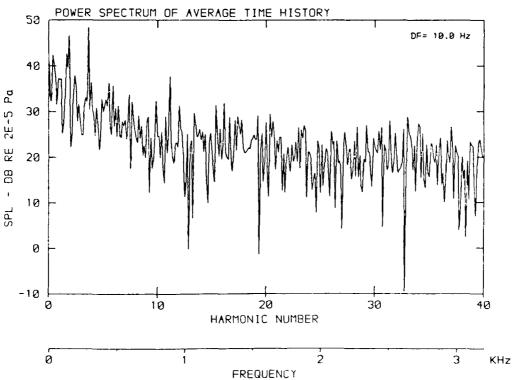




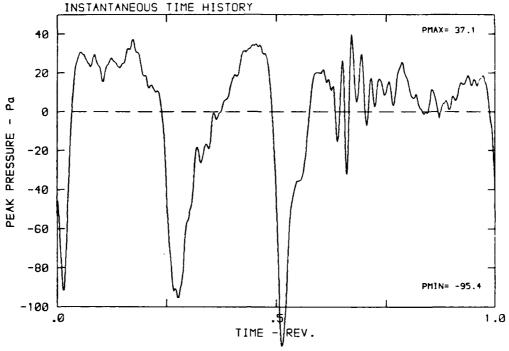
 $\beta\colon\,21.6^{\circ}\,$ MH: .7972 n: 2400 rpm v/u: .302 $\varphi\colon\,.0^{\circ}\,$ T: 278.6 K

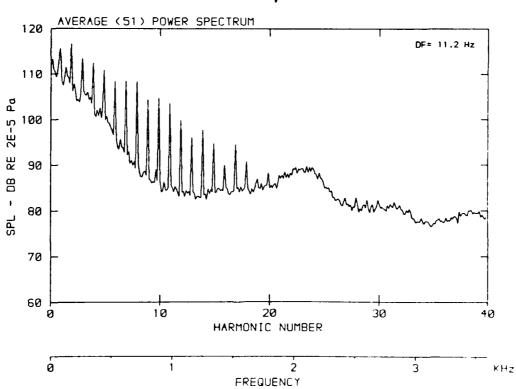


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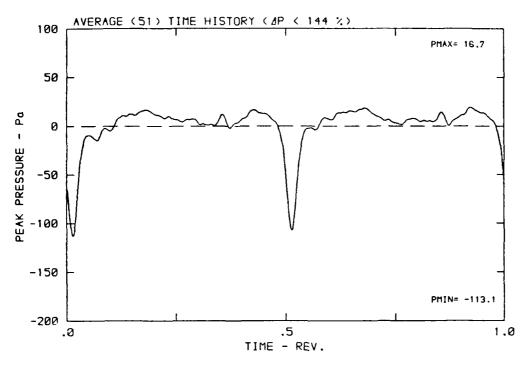
 $\beta\colon\,21.6^{\circ}\,$ MH: .8867 n: 2700 rpm v/u: .270 $\varphi\colon\,.0^{\circ}\,$ T: 260.2 K



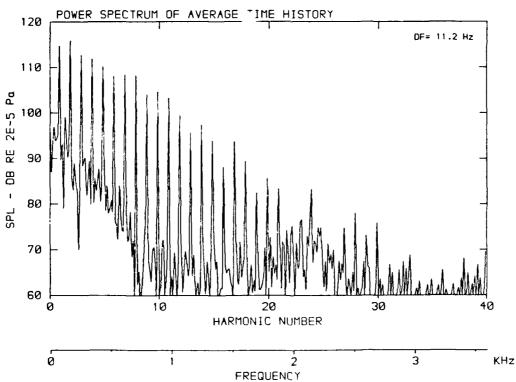


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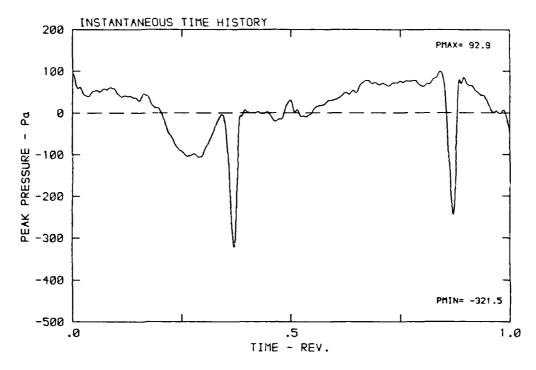
 β : 21.6° MH: .8867 n: 2700 rpm v/u: .270 ϕ : .0° T: 280.2 K

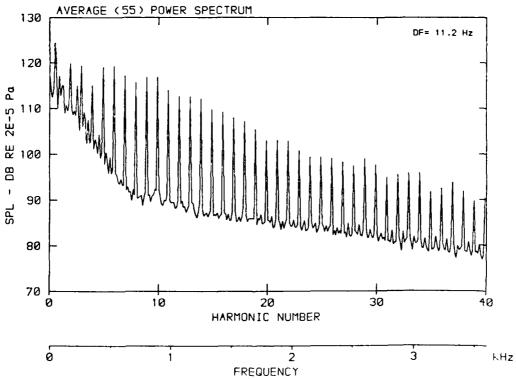


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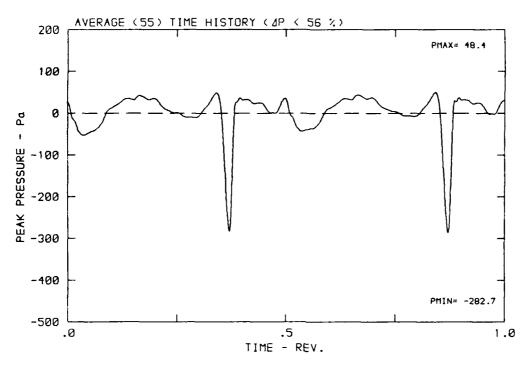


 β : 21.6° MH: .8867 n: 2700 rpm v/u: .270 ϕ : .3° T: 280.2 K

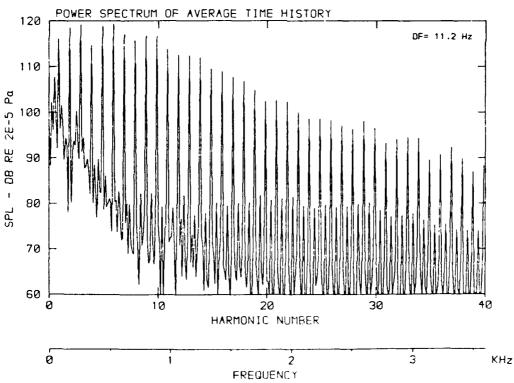




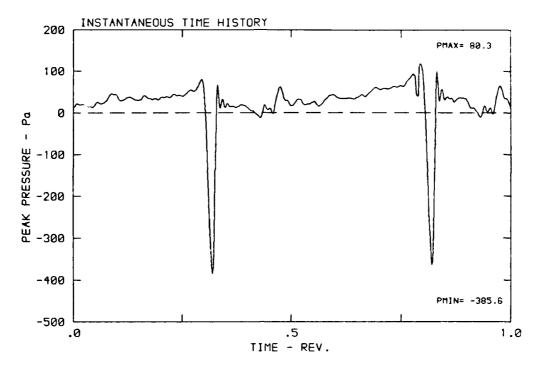
 β : 21.6° MH: .8867 n: 2700 rpm v/u: .270 ϕ : .0° T: 280.2 K

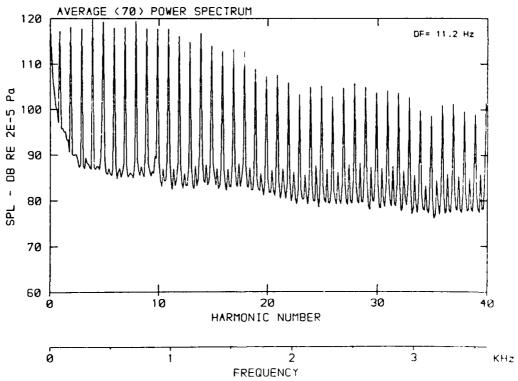


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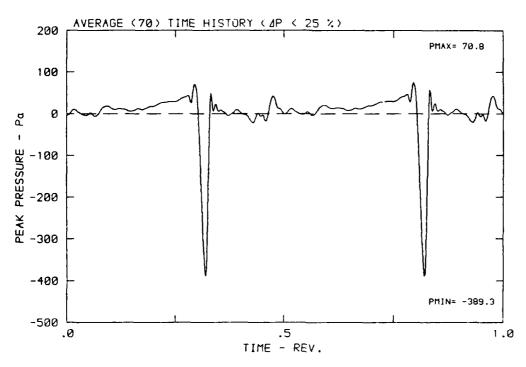


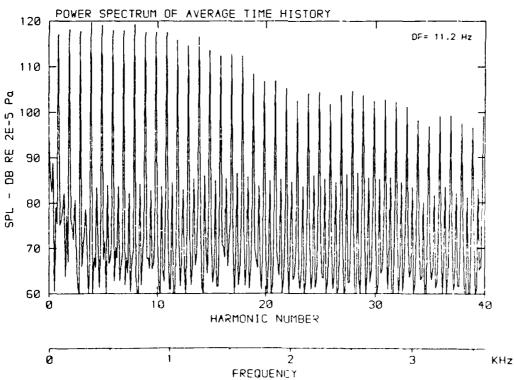
β: 21.6° MH: .8867 n: 2700 rpm ν/u: .270 φ: .0° T: 280.2 K



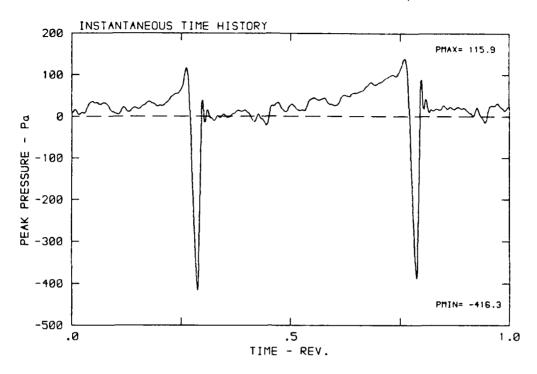


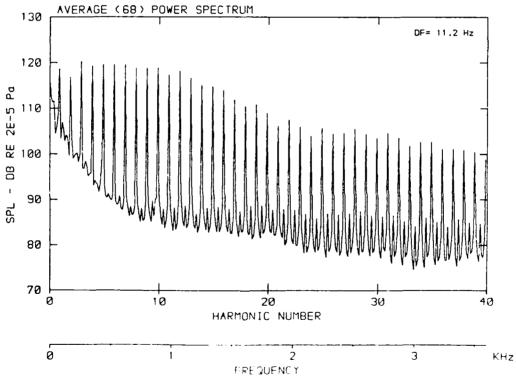
 β : 21.6° MH: .8867 n: 2700 rpm v/u: .270 ϕ : .0° T: 280.2 K



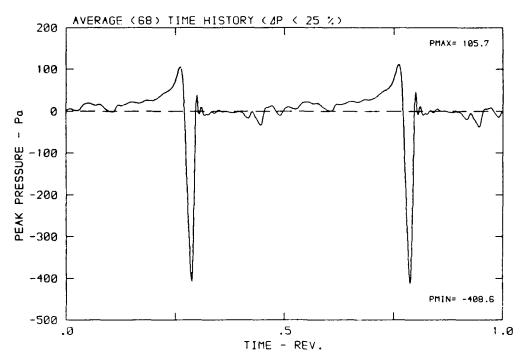


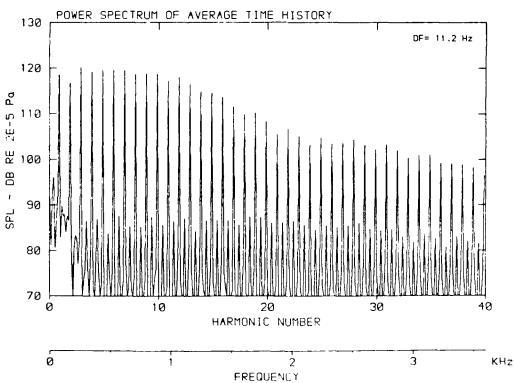
β: 21.6° MH: .8867 n: 2700 rpm ν/u: .270 φ: .0° T: 280.2 K



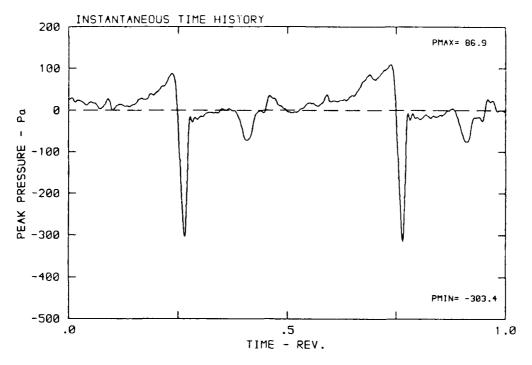


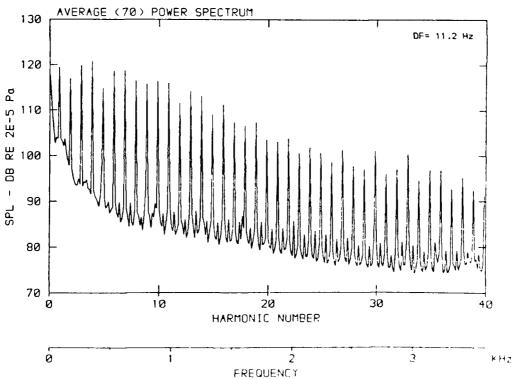
 β : 21.6° MH: .8867 n: 2700 rpm v/u: .270 ϕ : .0° T: 280.2 K





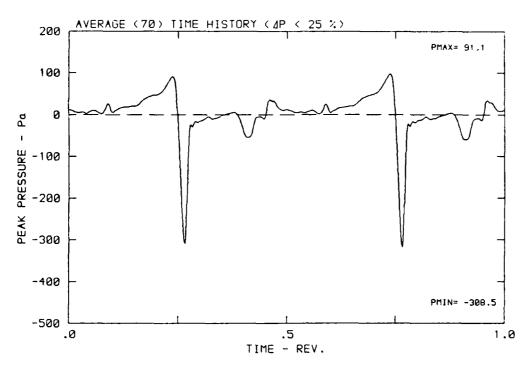
 β : 21.6° MH: .8867 n: 2700 rpm v/u: .270 ϕ : .0° T: 280.2 K

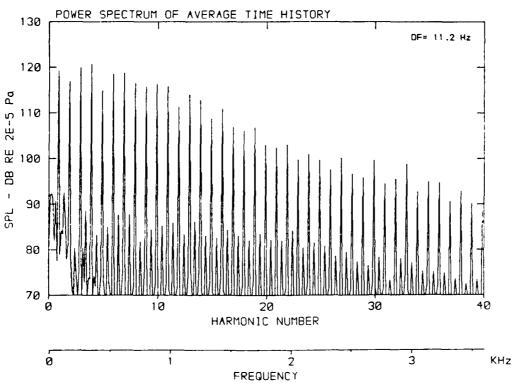




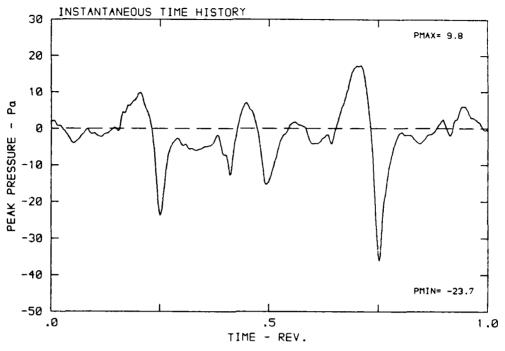
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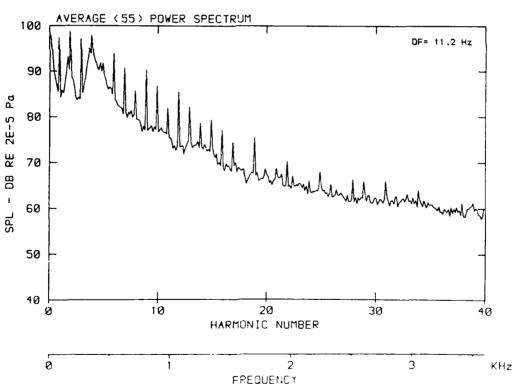
β: 21.6° MH: .8867 n: 2700 rpm ν/u: .270 φ: .0° γ: 280.2 K



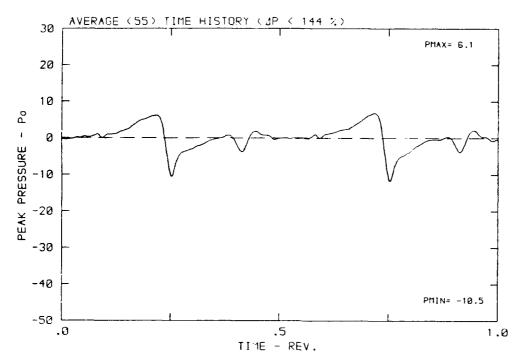


 β : 21.6° MH: .8867 n: 2700 rpm v/u: .270 ϕ : .0° T: 280.2 K

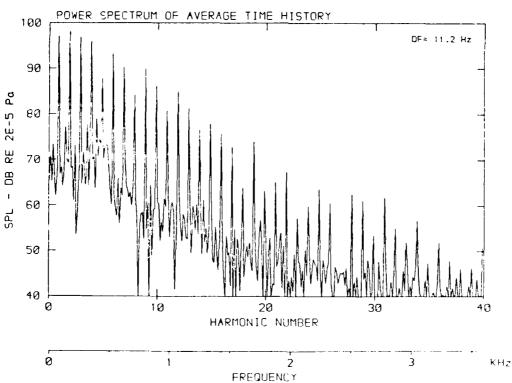




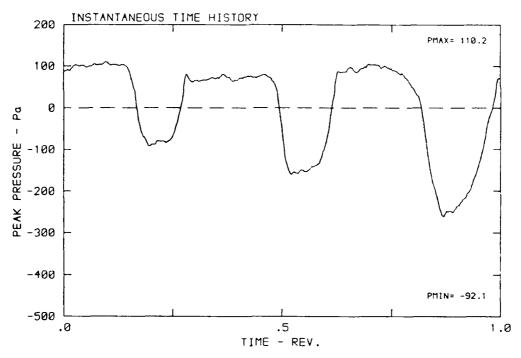
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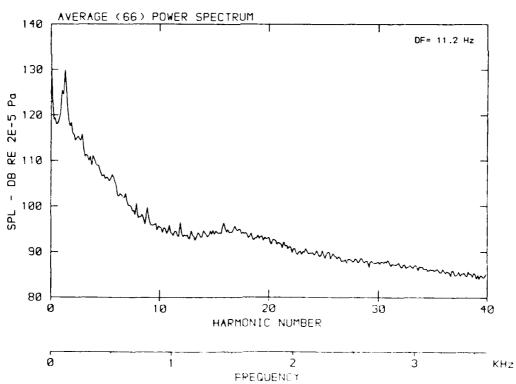


ACCOCATE RESPONDE RESPONDE RECOVERING RECOVERS

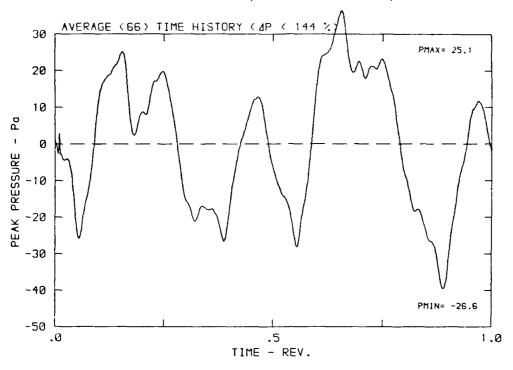


β: 21.6° MH: .8867 n: 2700 rpm ν/u: .270 φ: .0° I: 280.2 K

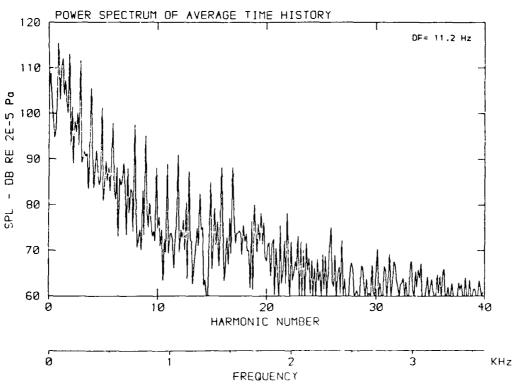




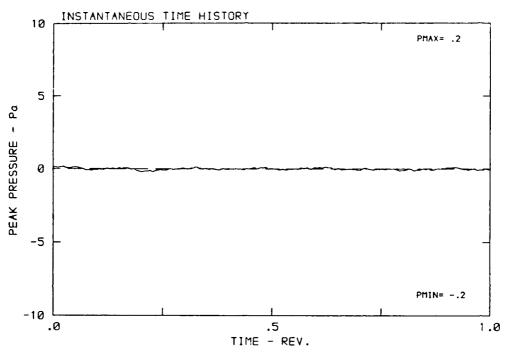
 β : 21.6° MH: .8867 n: 2700 rpm v/u: .270 ϕ : .0° T: 280.2 K

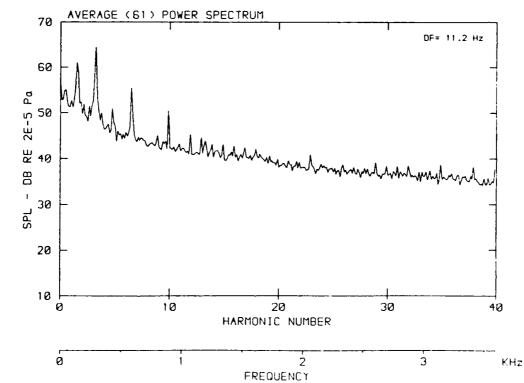


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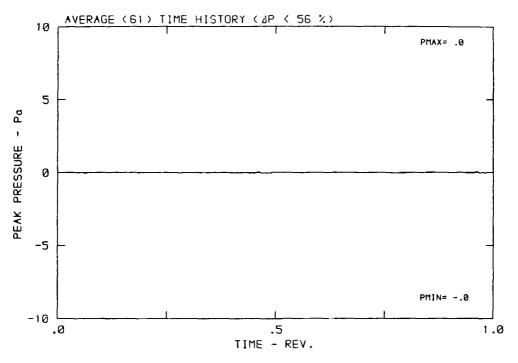


 β : 21.6° MH: .8867 n: 2700 rpm v/u: .270 ϕ : .0° T: 280.2 K

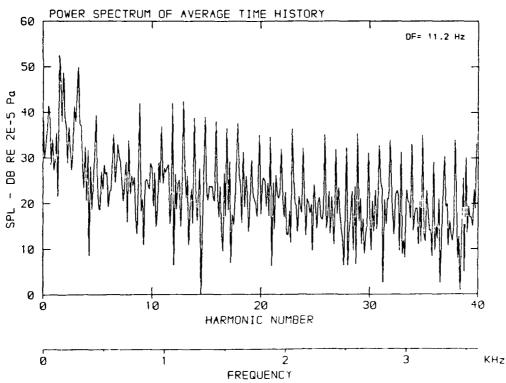




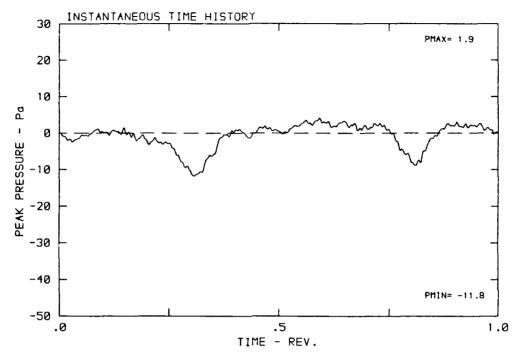
 β : 21.6° MH: .8867 n: 2700 rpm v/u: .270 ϕ : .0° T: 280.2 K

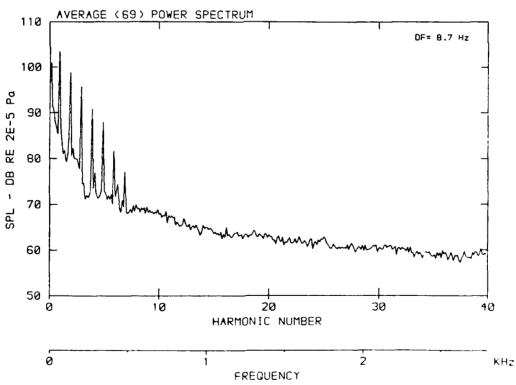


STATE ASSESSED PROPERTY SECURISE WAS PROPERTY DESCRIPTION

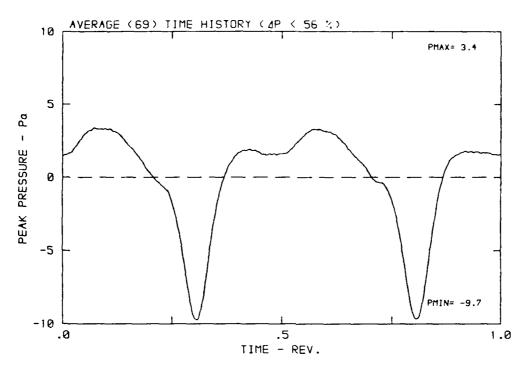


 $β: 20.7^{\circ}$ MH: .6861 n: 2100 rpm v/u: .229 φ: .0° T: 277.7 K

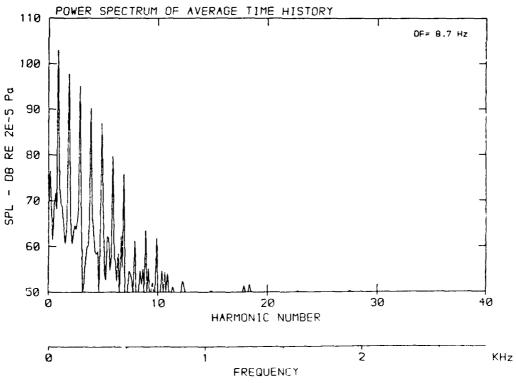




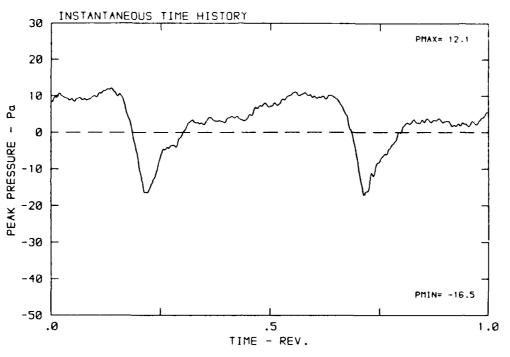
 β : 20.7° MH: .6861 n: 2100 rpm v/u: .229 ϕ : .0° T: 277.7 K

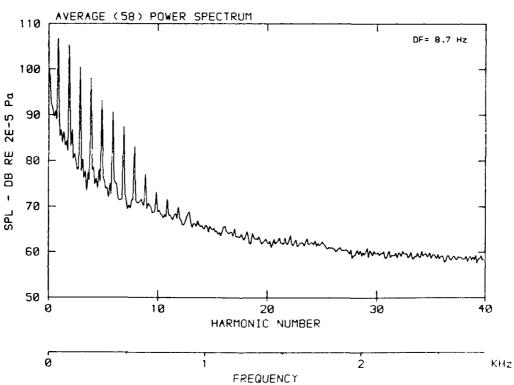


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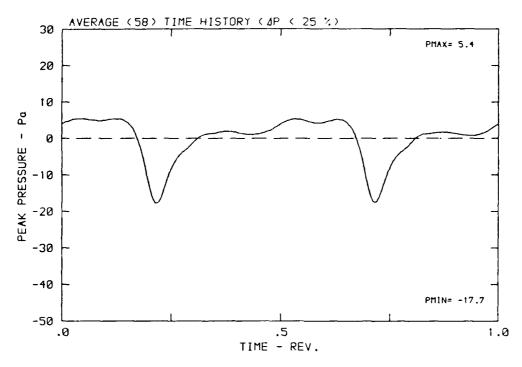


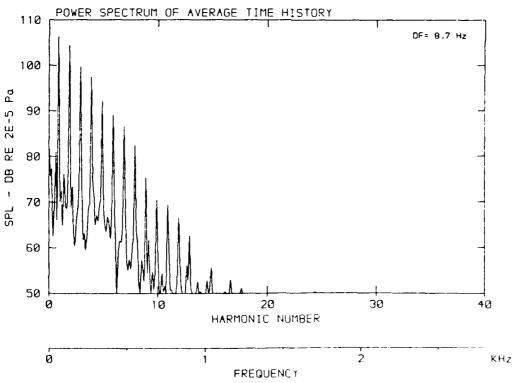
 $\beta\colon\,20.7^{\circ}\,$ MH: .6861 n: 2100 rpm v/u: .229 $\varphi\colon\,.0^{\circ}\,$ T: 277.7 K



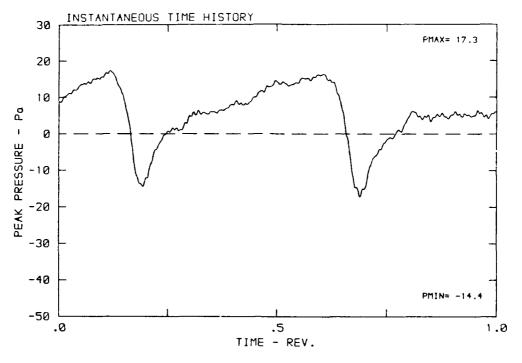


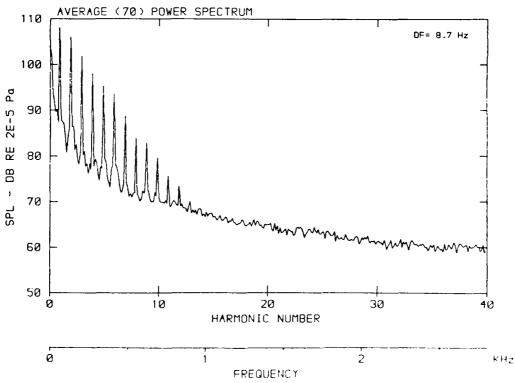
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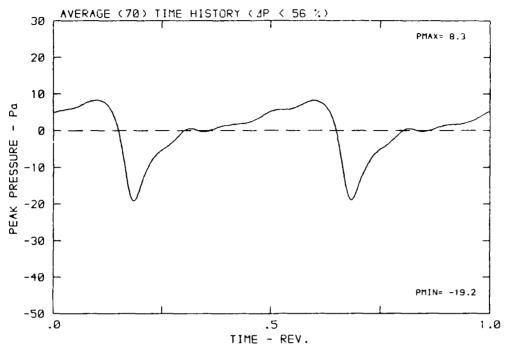
 β : 20.7° MH: .6861 n: 2100 rpm v/u: .229 ϕ : .0° T: 277.7 K

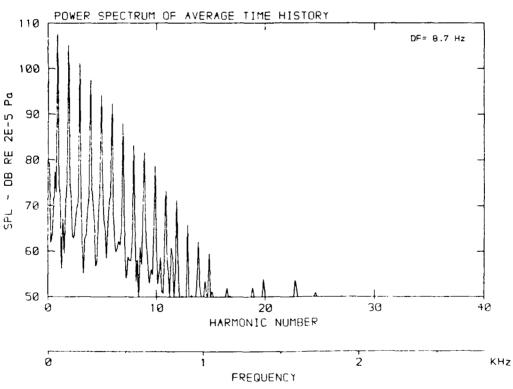




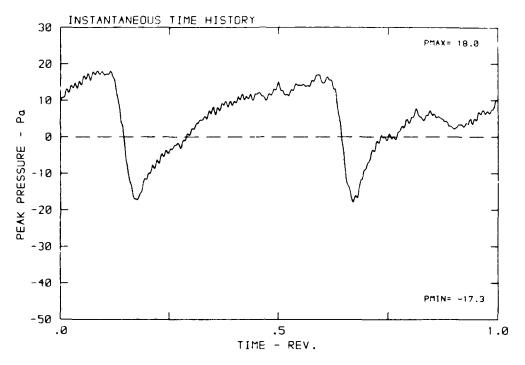
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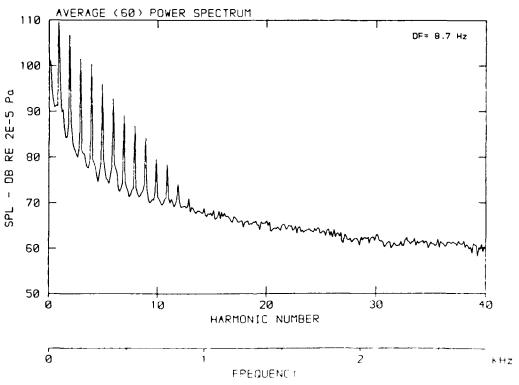
MANAGEMENT CACCOCCA



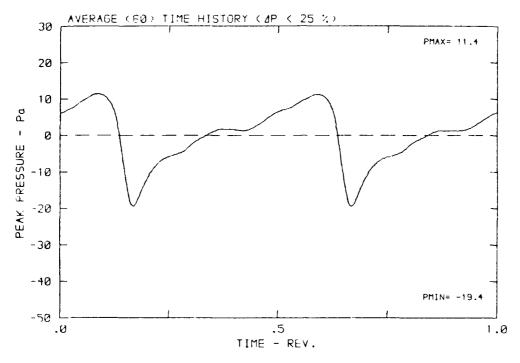


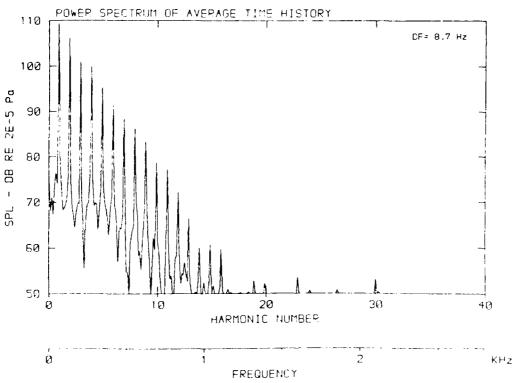
 β : 20.7° MH: .6861 n: 2100 npm v/u: .229 ϕ : .0° T: 277.7 K



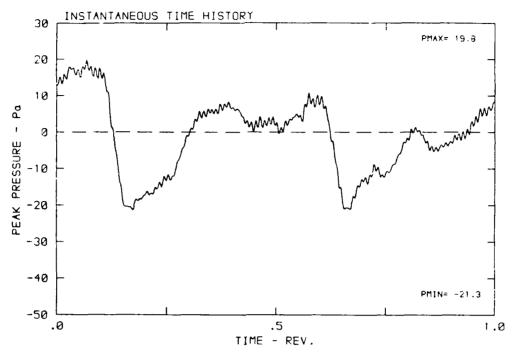


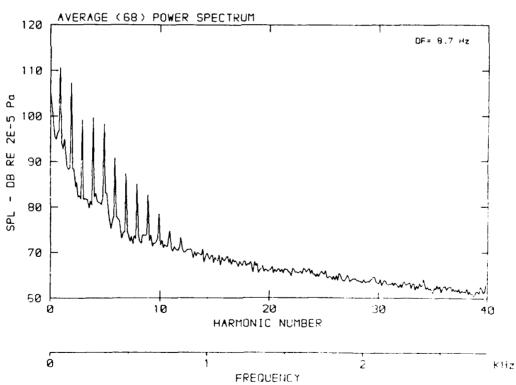
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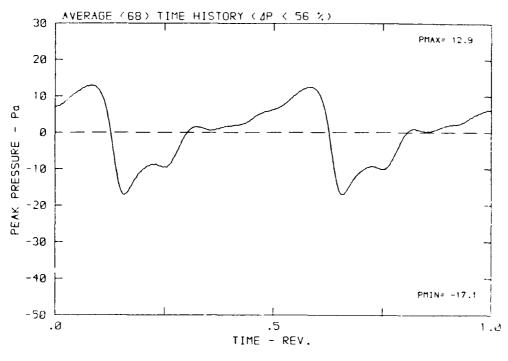


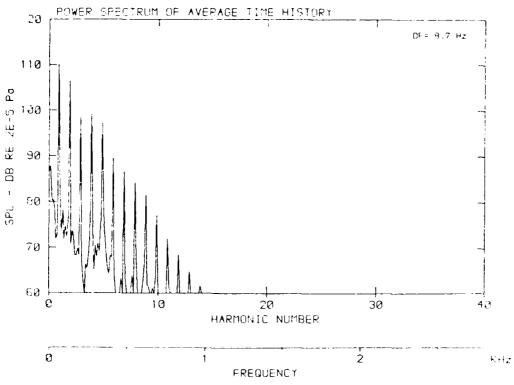
 β : 20.7° MH: .6861 n: 2100 rpm v/u: .229 ϕ : .0° T: 277.7 K



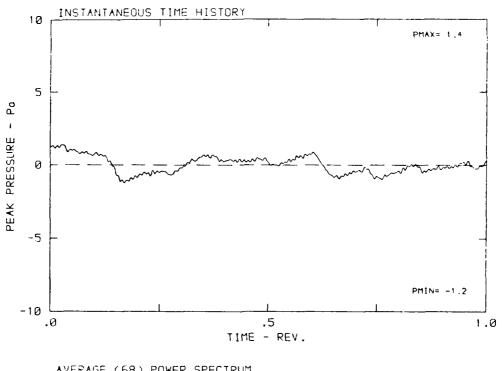


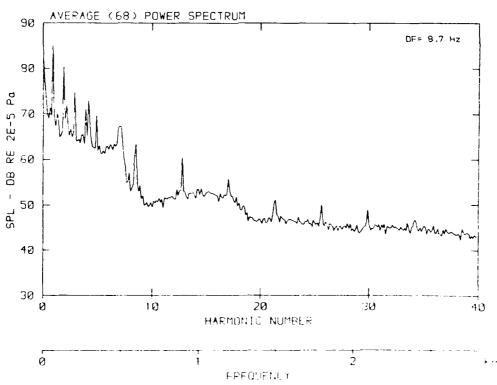
 β : 20.7° MH: .6861 n: 2100 rpm v/u: .229 ϕ : .0° T: 277.7 K



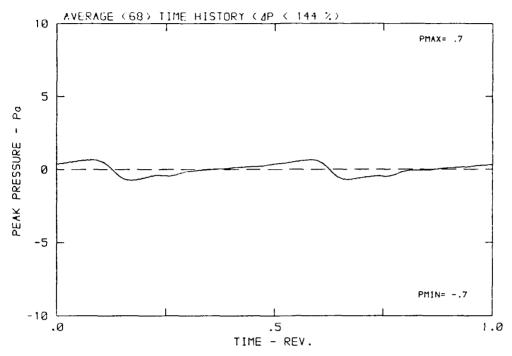


 $\beta: 20.7^{\circ}$ MH: .6861 n: 2100 rpm v/u: .229 $\phi: .0^{\circ}$ T: $27^{\circ}.7$ K

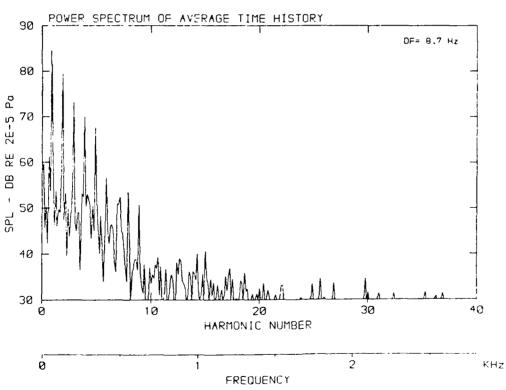




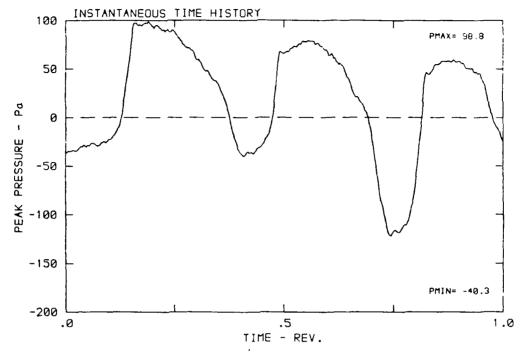
 β : 20.7° MH: .6861 n: 2100 rpm v/u: .229 ϕ : .0° T: 277.7 K

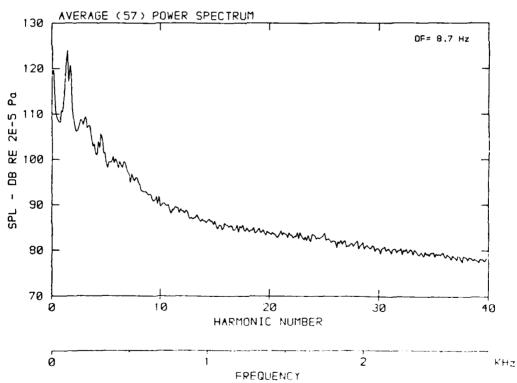


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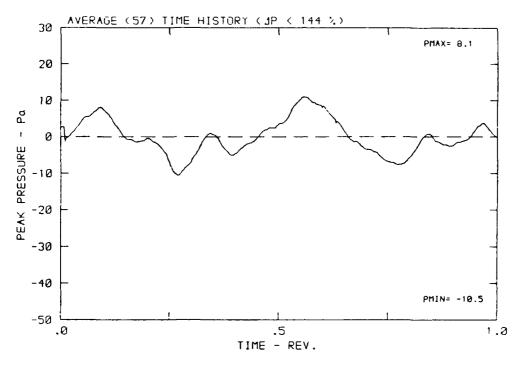


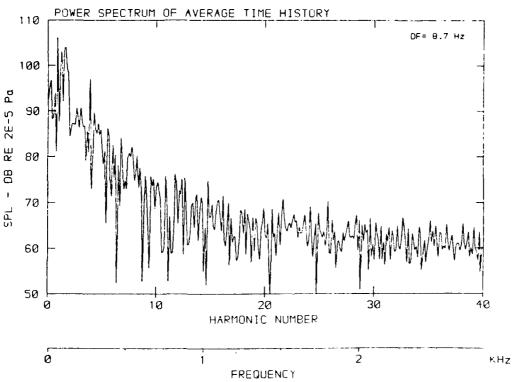
 $β: 20.7^{\circ}$ MH: .6861 n: 2100 rpm v/u: .229 φ: .0° T: 277.7 K



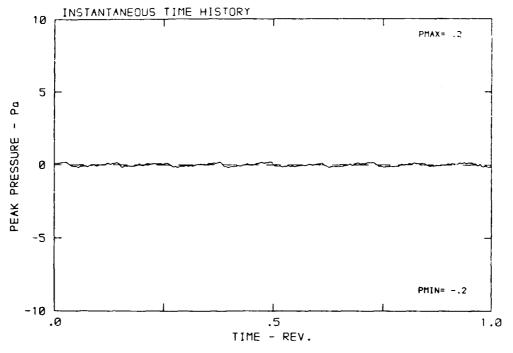


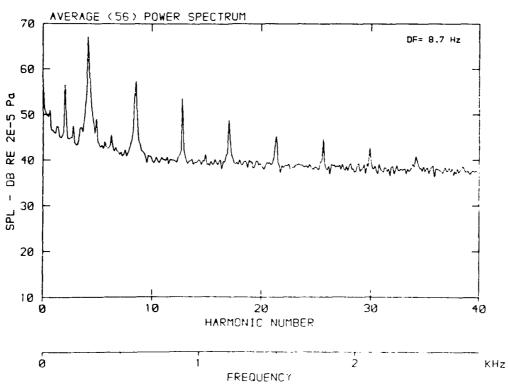
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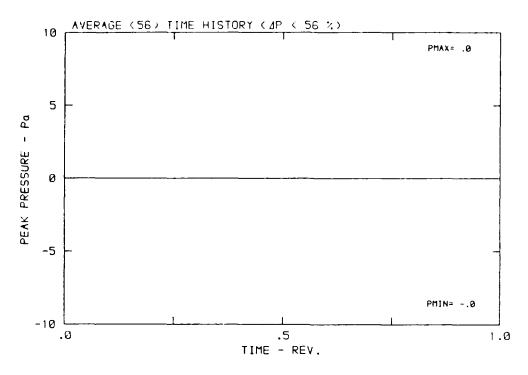


 $\beta: 20.7^{\circ}$ MH: .6861 n: 2100 npm v/u: .229 $\phi: .0^{\circ}$ 7: 277.7 k

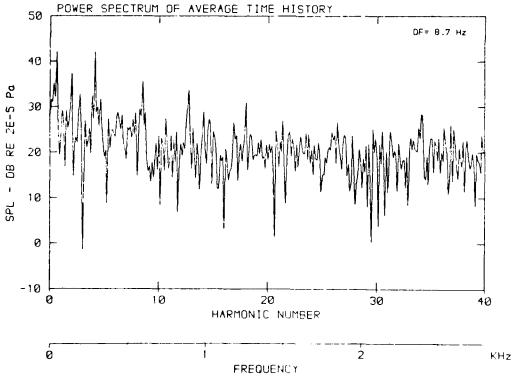




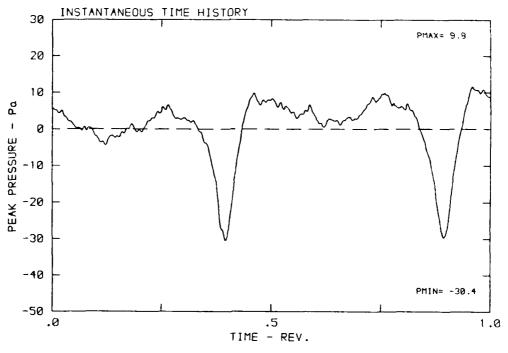
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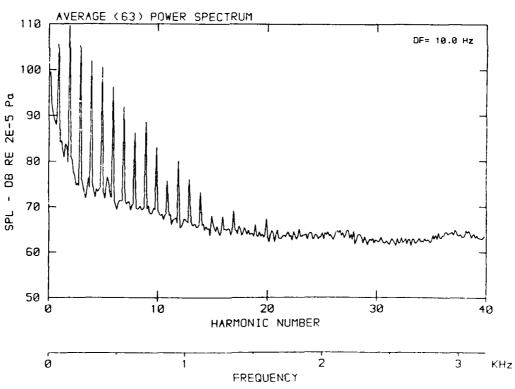


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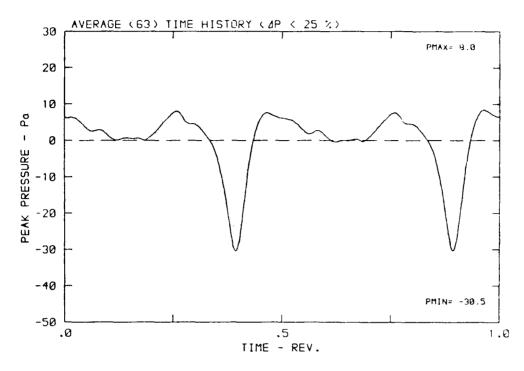


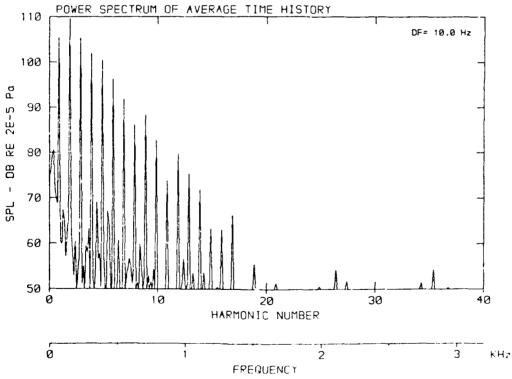
 $\beta\colon\,20.7^{o}\,$ MH: .7791 n: 2400 rpm v/u: .203 $\,\phi\colon\,.0^{o}\,$ T: 278.3 K



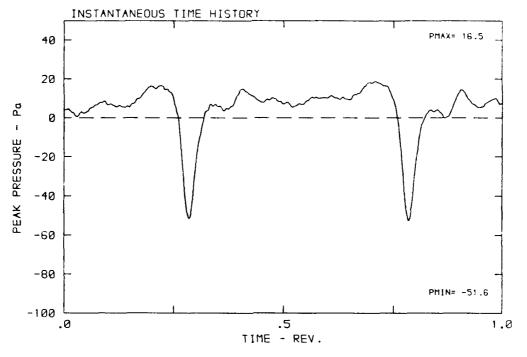


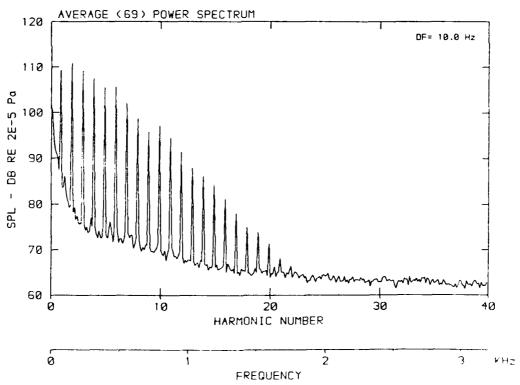
 $β: 20.7^{\circ}$ MH: .7791 n: 2400 rpm ν/u: .203 $φ: .0^{\circ}$ T: 279.3 K



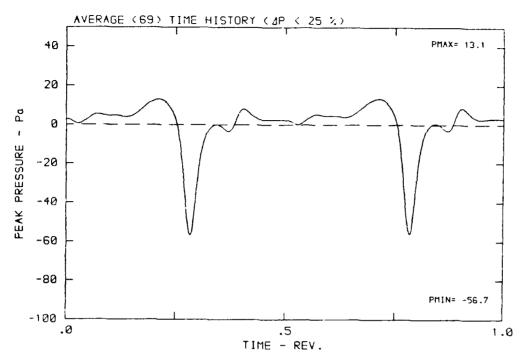


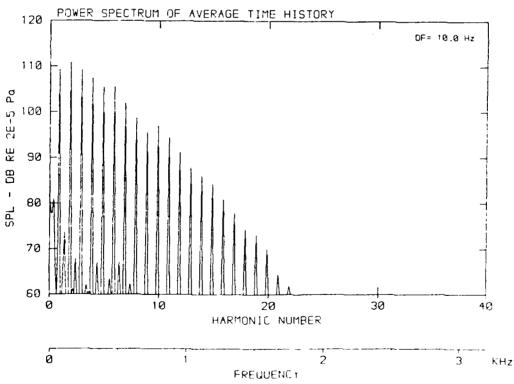
β: 20.7° MH: .7791 n: 2400 npm ννu: .203 φ: .0° Γ: [18.3 κ



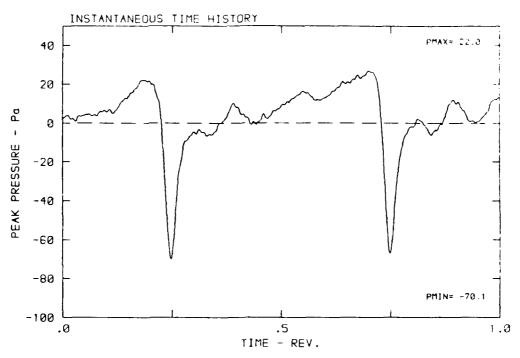


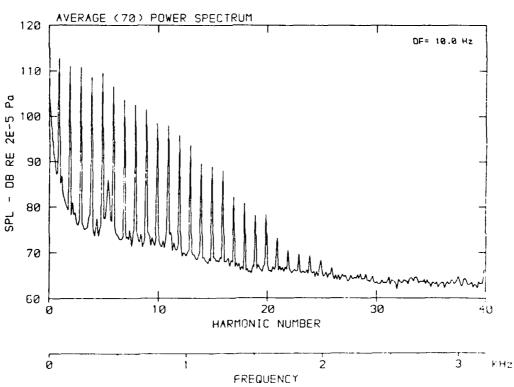
 β : 20.7° MH: .7791 n: 2400 rpm v/u: .203 ϕ : .0° T: 278.3 K



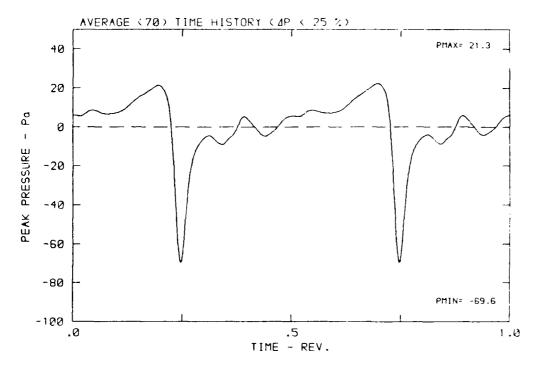


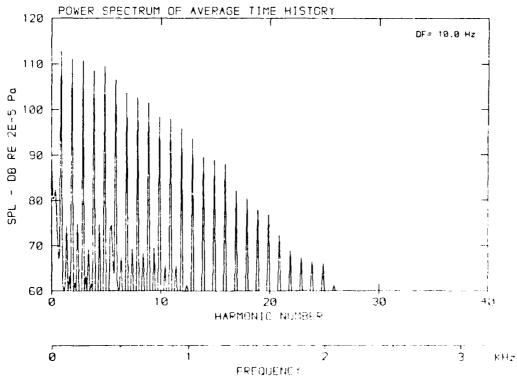
 $\beta: 20.7^{\circ}$ MH: .7791 n: 2400 cpm v/u: .203 $\phi: .0^{\circ}$ T: 173.3 \star



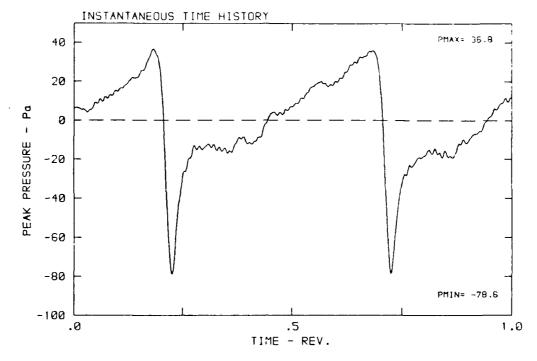


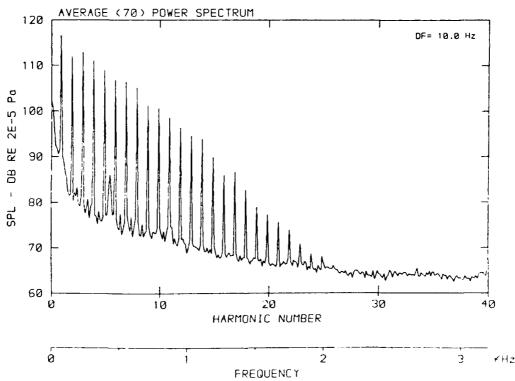
 $\beta\colon 20.7^{\circ}$ MH: .7791 n: 2400 rpm v/u: .203 $\varphi\colon .0^{\circ}$ T: 278.3 K



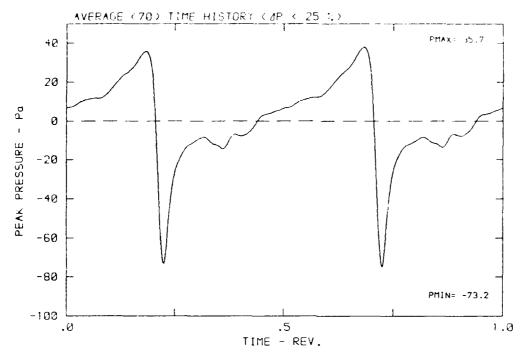


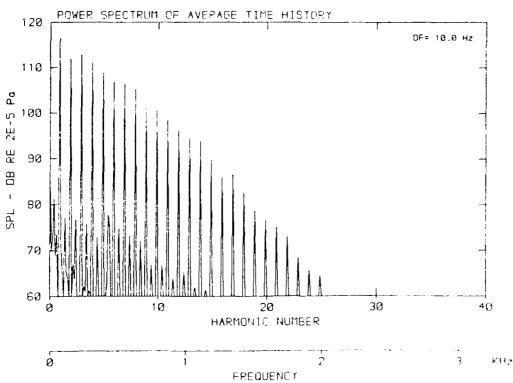
β: 20.7° MH: .7791 n: 2400 npm γ/u: .233 p: .3° f: 278.3 k



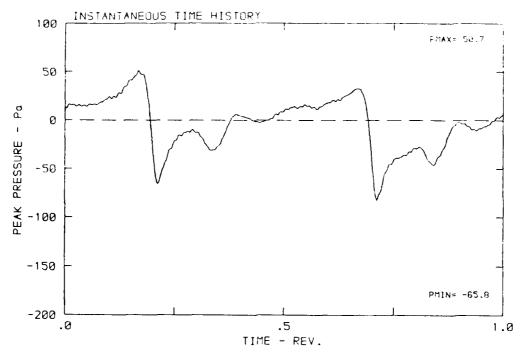


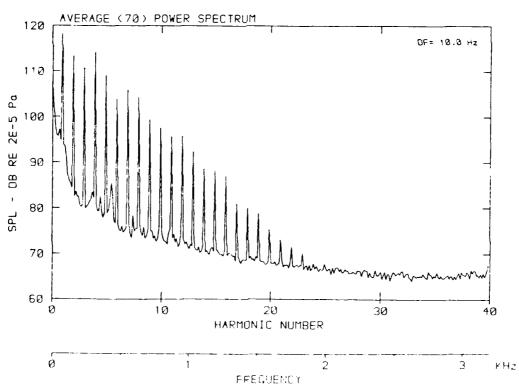
β: 20.7° MH: .7731 n: 2400 rpm v/u: .203 ψ: .0 $^{\circ}$ I: 278.3 K

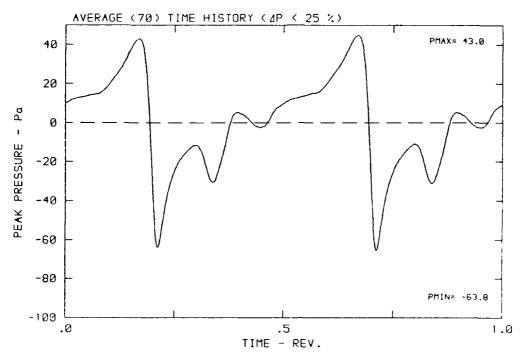


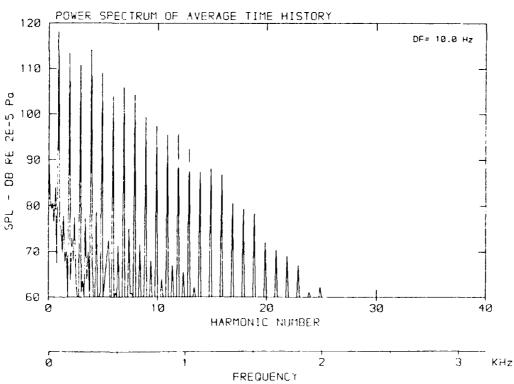


 $\beta: 20.7^{\circ}$ MH: .7791 n: 2400 rpm v/u: .203 $\phi: .0^{\circ}$ T: 270.3 -

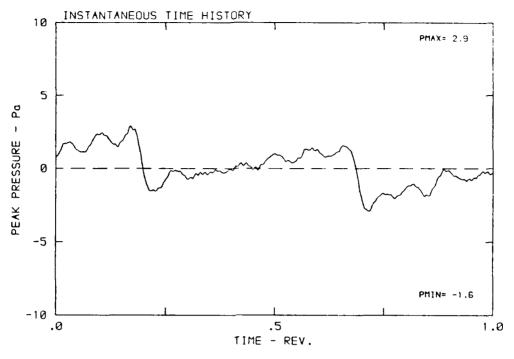


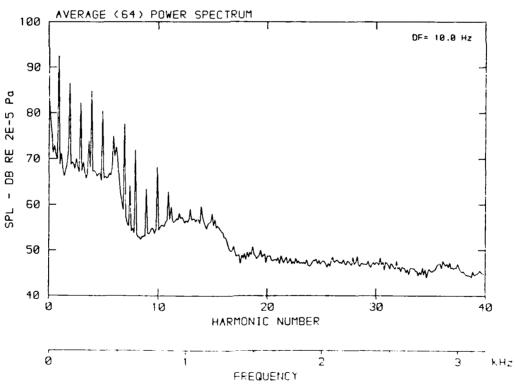




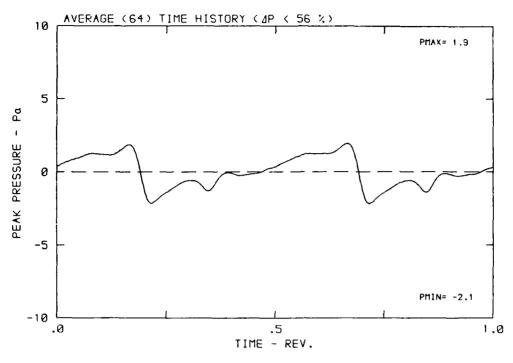


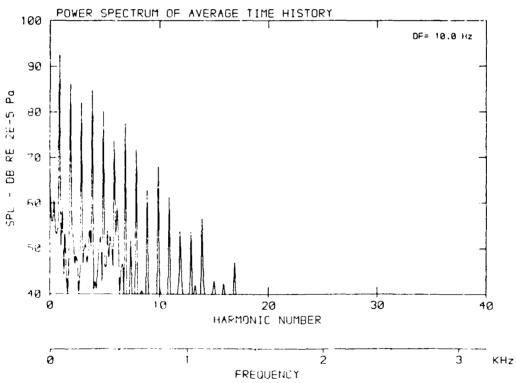
β: 20.7° MH: .7791 n: 2400 rpm v/u: .203 φ: .0° I: 273.3 κ



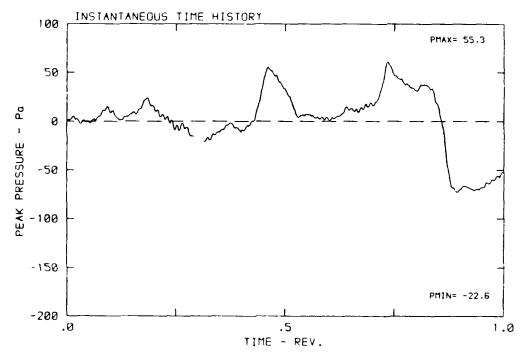


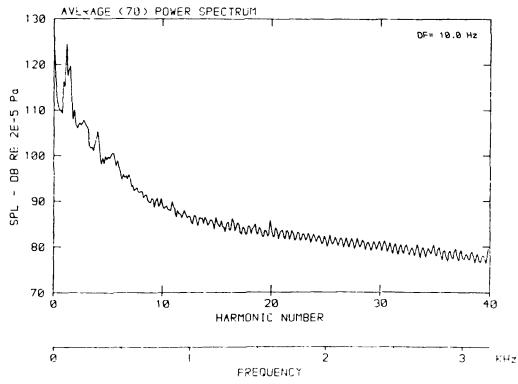
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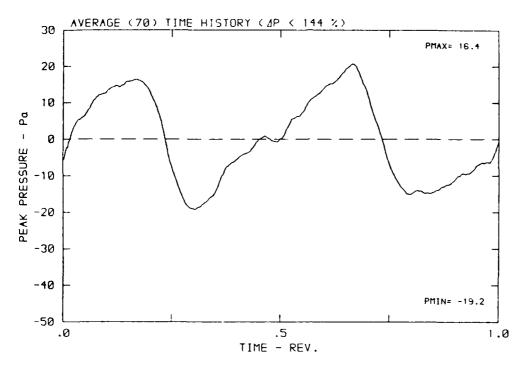


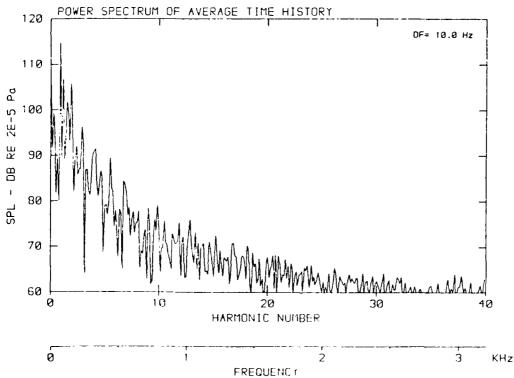
 $\beta\colon\,20.7^{\circ}\,$ MH: .7791 n: 2400 rpm v/u: .203 $\varphi\colon\,.0^{\circ}\,$ T: 278.3 K



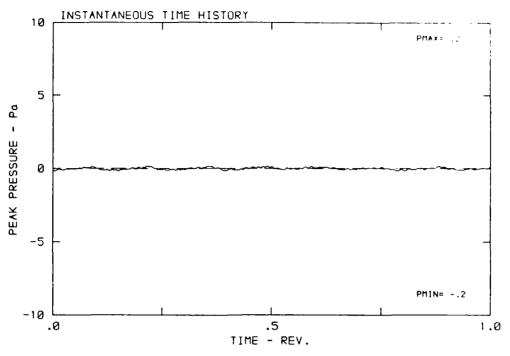


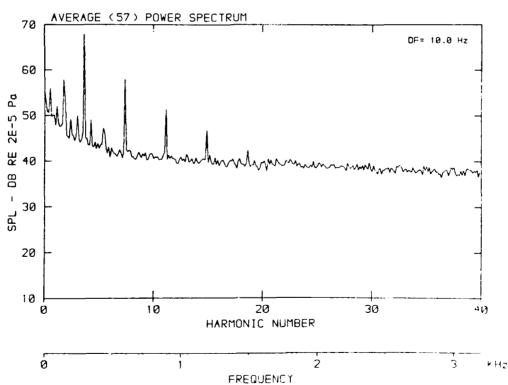
 β : 20.7° MH: .7791 n: 2400 rpm $\mbox{ v/u}$: .203 $\mbox{ }\phi$: .0° T: 278.3 K



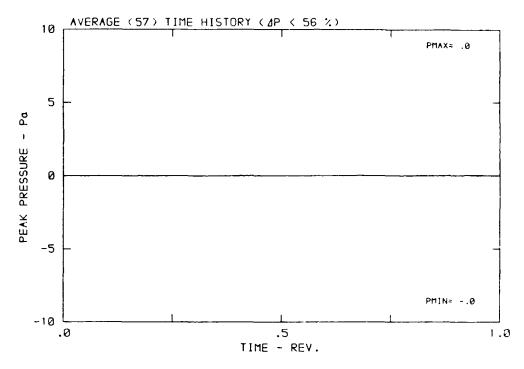


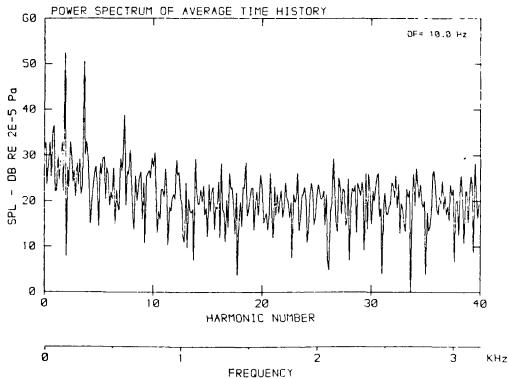
β: 20.7° MH: .7791 n: 2400 rpm v/u: .203 φ: .0° 1: 250.3 K

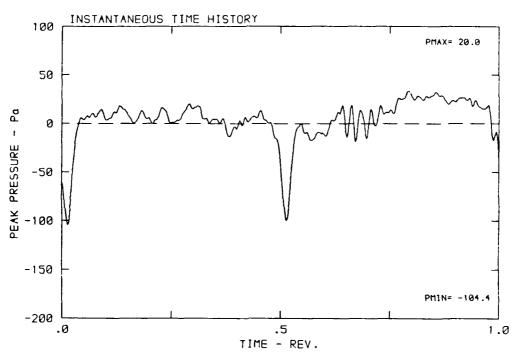


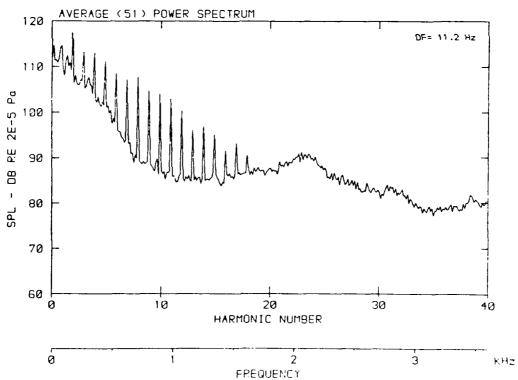


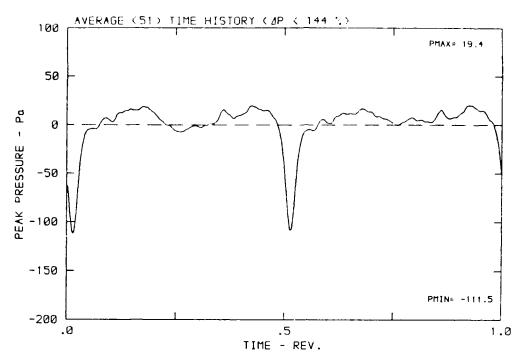
 $\beta\colon\,20.7^{\circ}\,$ MH: .7791 n: 2400 rpm v/u: .203 $\varphi\colon\,.0^{\circ}\,$ T: 278.3 K

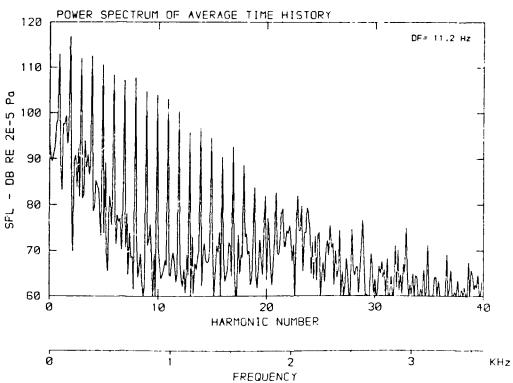


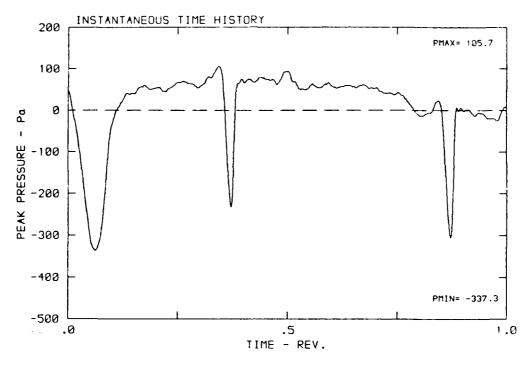


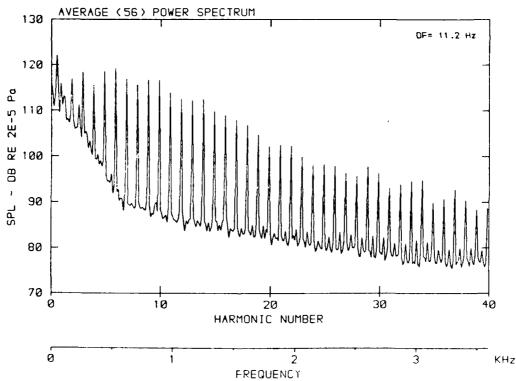




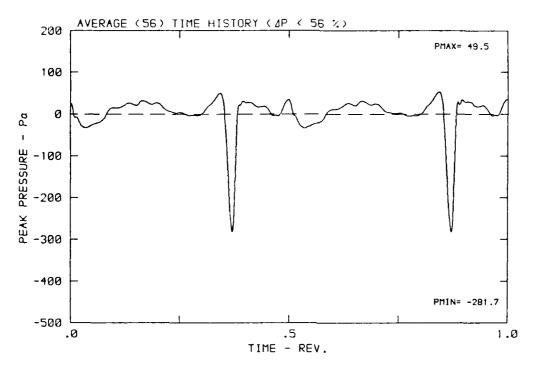




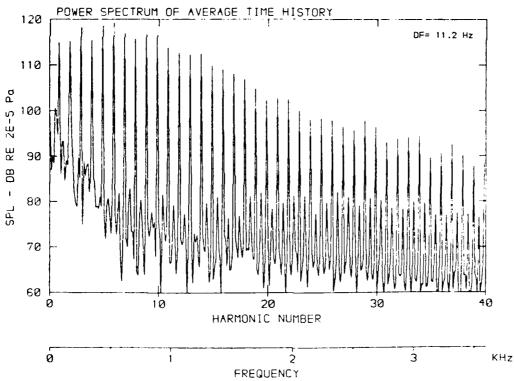




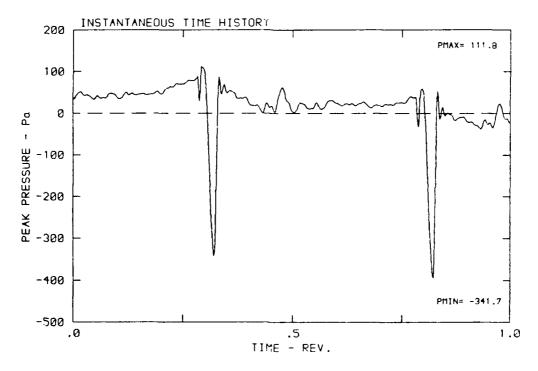
 $\beta\colon\,20.7^{o}\,$ MH: .8881 n: 2700 rpm v/u: .270 $\varphi\colon\,.0^{o}\,$ T: 279.3 K



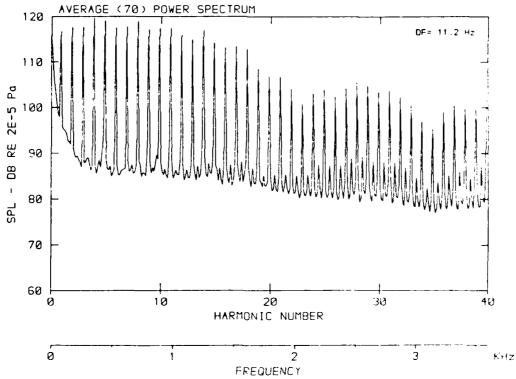
MARKET TOTAL COCCURS COCCCC INCIN

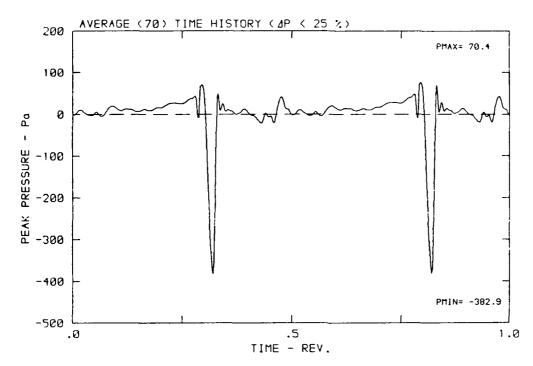


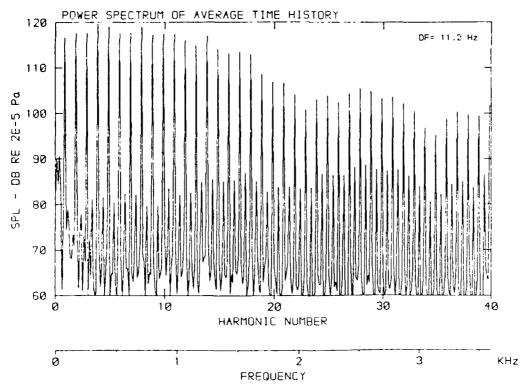
 β : 20.7° MH: .8881 n: 2700 rpm v/u: .270 ϕ : .0° T: 279.3 K



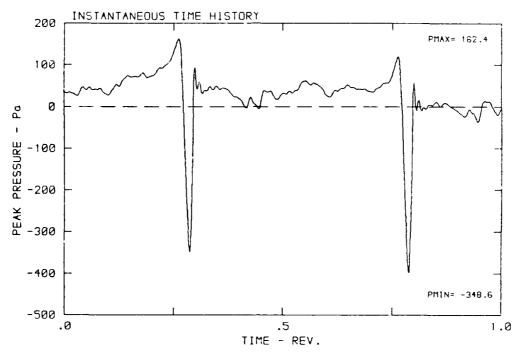
and proceeded the property accepted assistant page

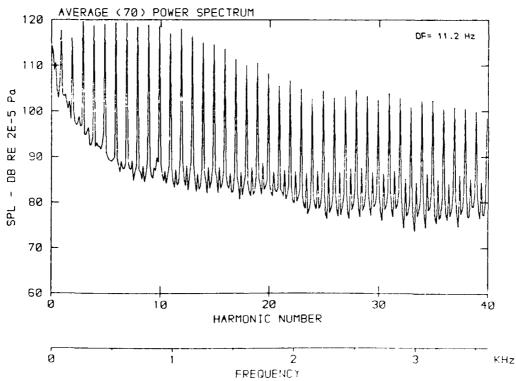




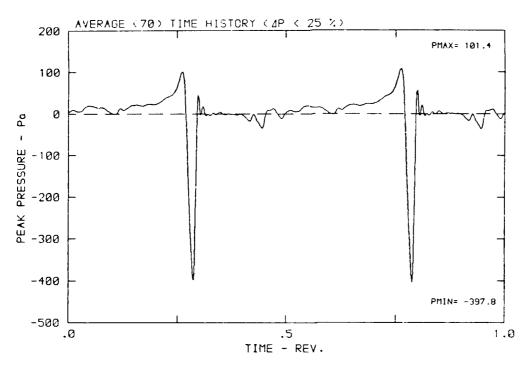


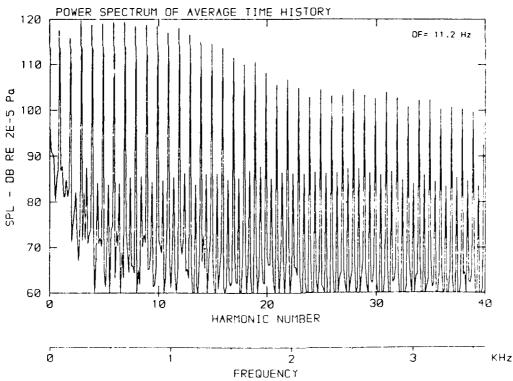
 $\beta: 20.7^{\circ}$ MH: .8881 n: 2700 rpm v/u: .270 $\phi: .0^{\circ}$ T: 279.3 k



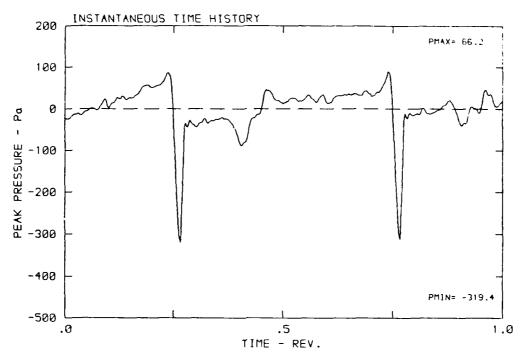


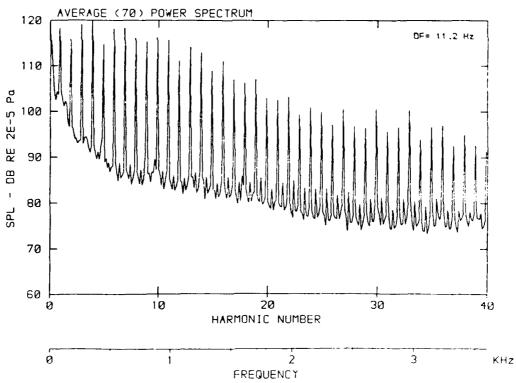
 $β: 20.7^{\circ}$ MH: .8881 n: 2700 rpm v/u: .270 φ: .0° T: 279.3 K



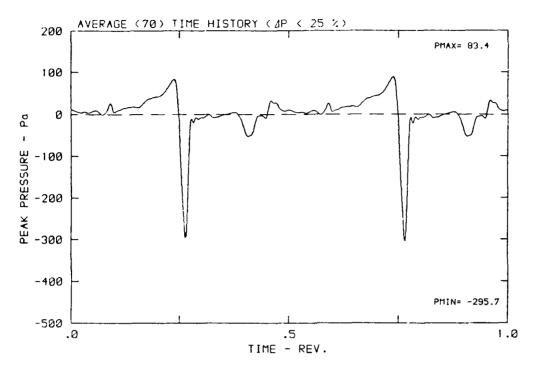


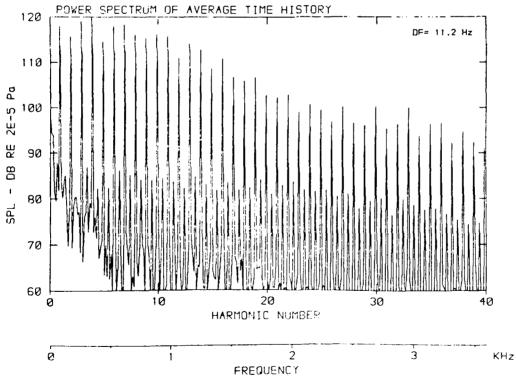
β: 20.7° MH: .8881 n: 2700 rpm v/u: .270 φ: .0° T: 279.3 k

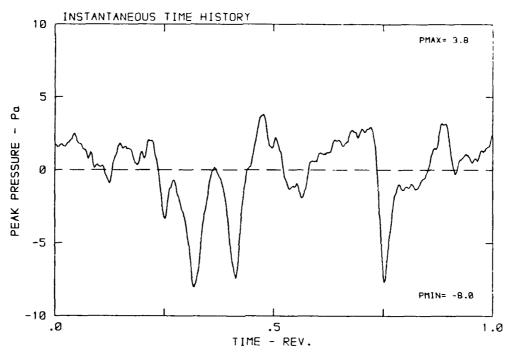


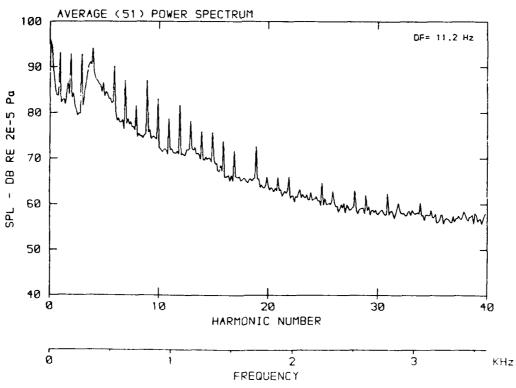


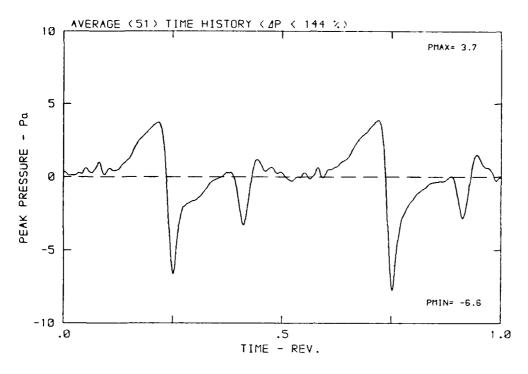
 $\beta\colon 20.7^{o}$ MH: .8881 n: 2700 rpm v/u: .270 $\varphi\colon .0^{o}$ T: 279.3 K

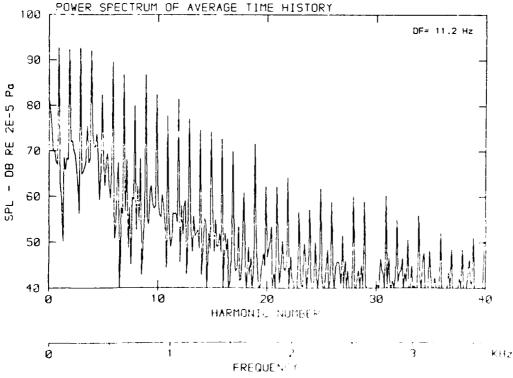


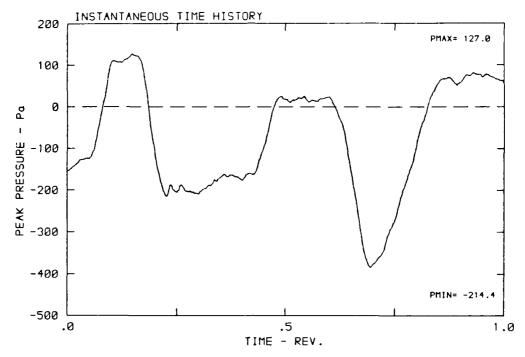


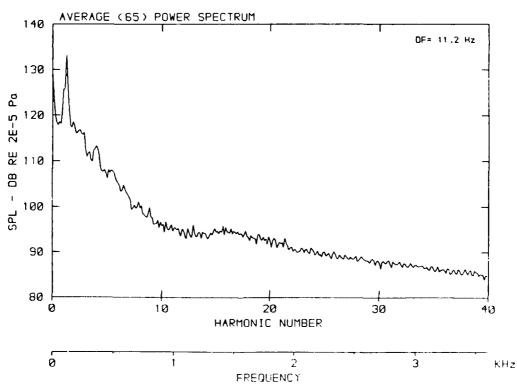




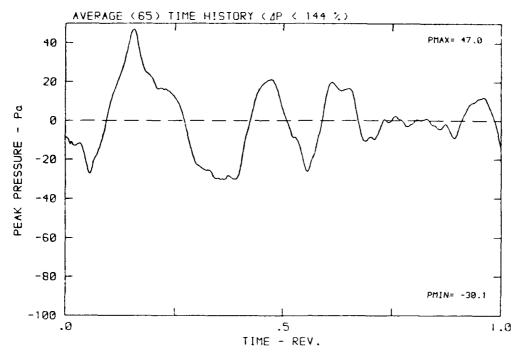


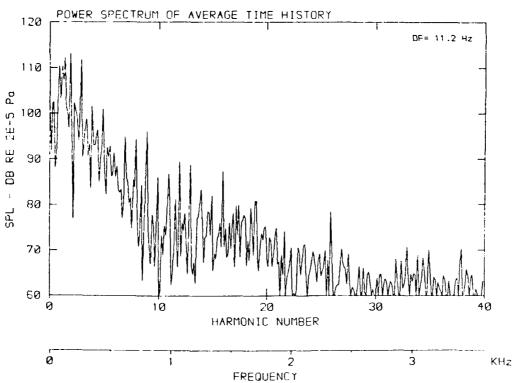




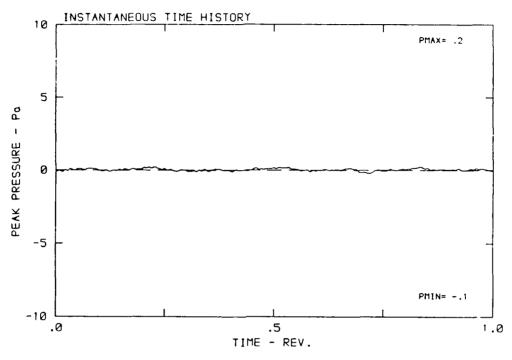


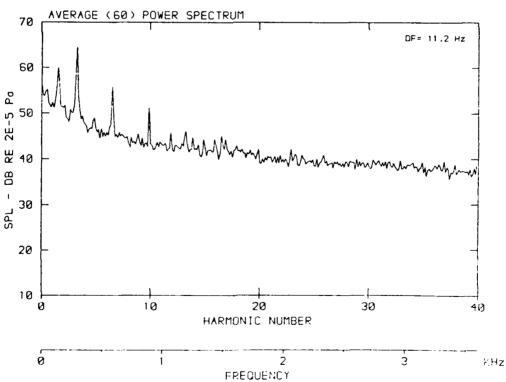
 $\beta\colon\,20.7^{o}\,$ MH: .8881 n: 2700 rpm v/u: .270 $\varphi\colon\,.0^{o}\,$ T: 279.3 k

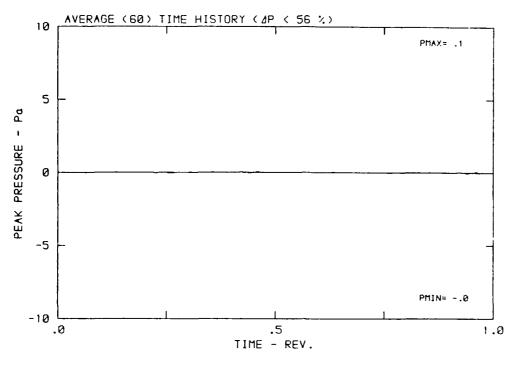


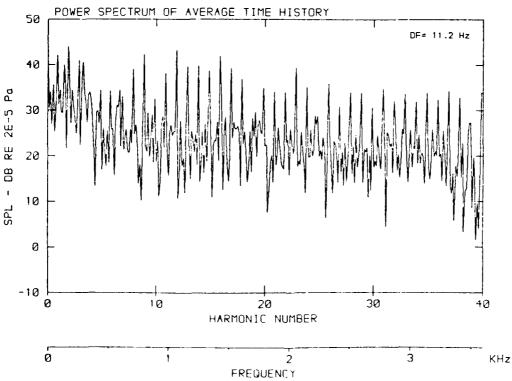


 $β: 20.7^{\circ}$ MH: .8881 n: 2700 rpm v/u: .270 φ: .00 T: 279.3 K

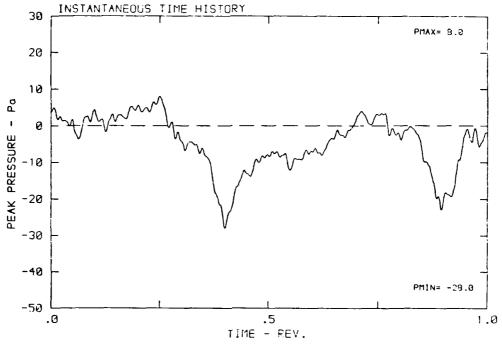


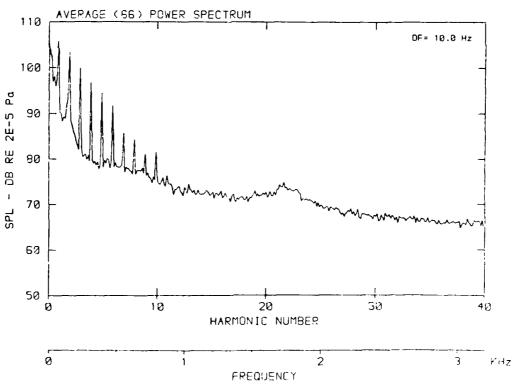




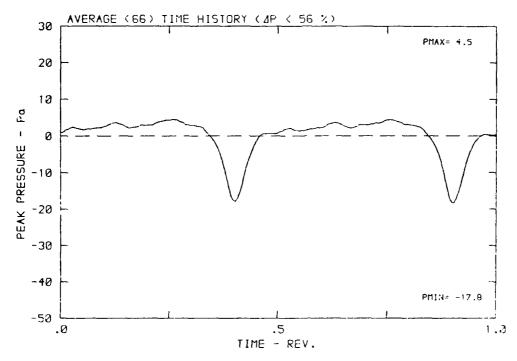


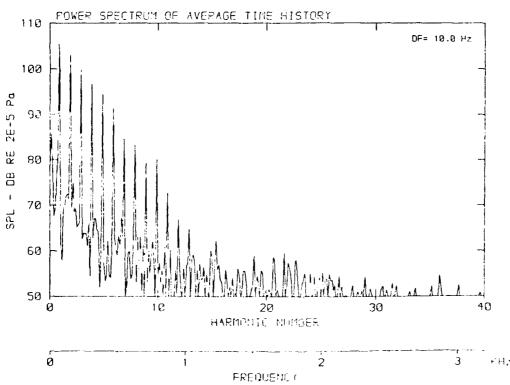
β: 21.6° MH: .7710 n: 2400 rpm v/u: .303 φ: .0° T: 297.3 β





 β : 21.6° MH: .7710 n: 2400 rpm $\mbox{ v/u}$: .303 $\mbox{ }\phi$: .0° T: 297.9 K

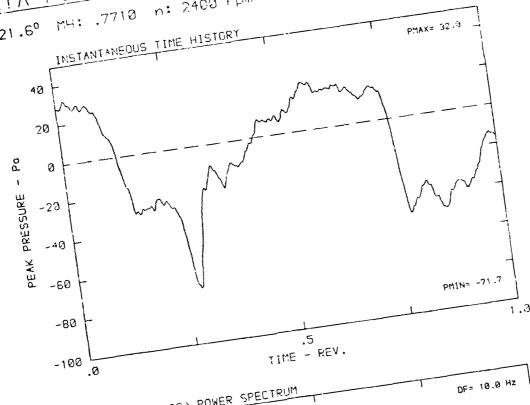


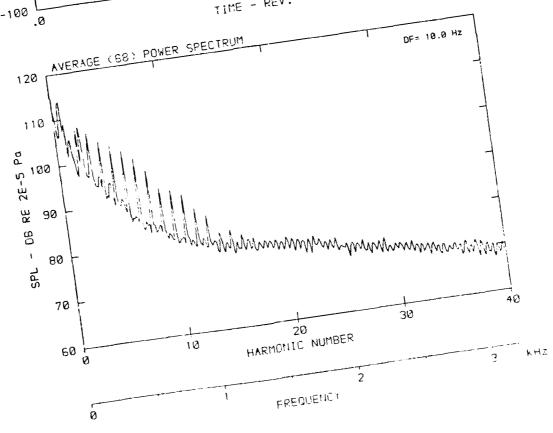


PMAX= 32.9

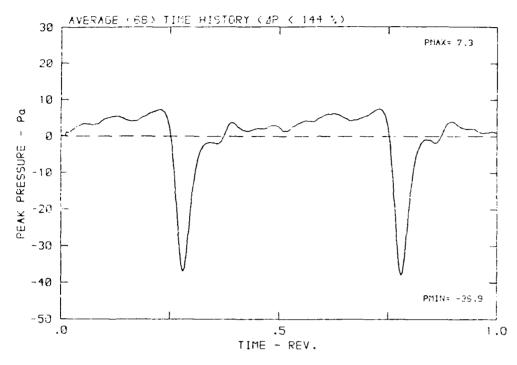
β: 21.6° MH: .7710

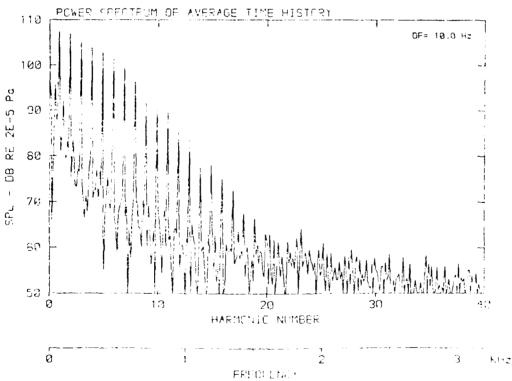
المنترينينية والمحاصلين المكنيكة المحاري



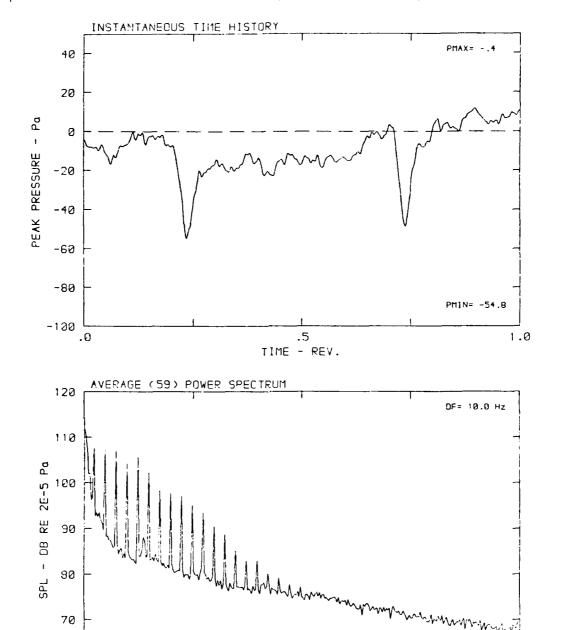


 β : 21.6° MH: .7710 n: 2400 rpm v/u: .303 ϕ : .0° T: 297.9 K





β: 21.6° MH: .7710 n: 2400 npm v/u: .303 φ: .0° T: 297.9 K



20 HARMONIC NUMBER

FREQUENCY

30

ż

40

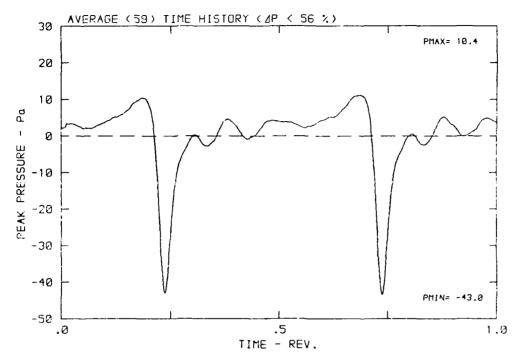
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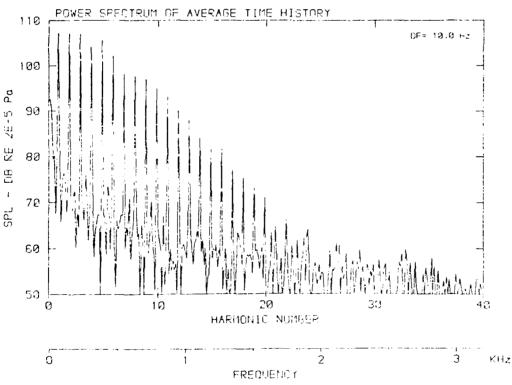
60 H

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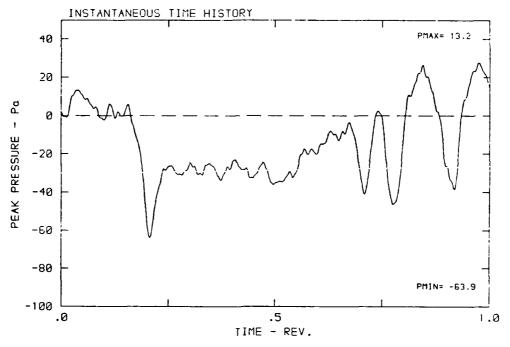
 β : 21.6° MH: .7710 n: 2400 rpm v/u: .303 ϕ : .0° T: 297.9 K

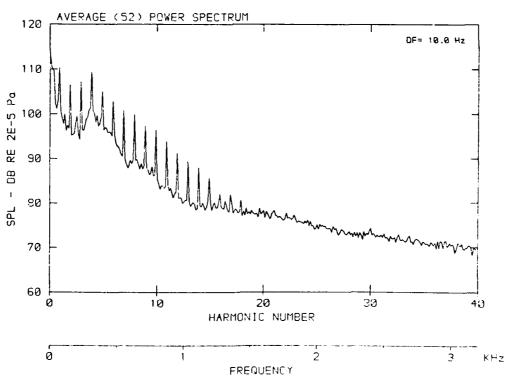


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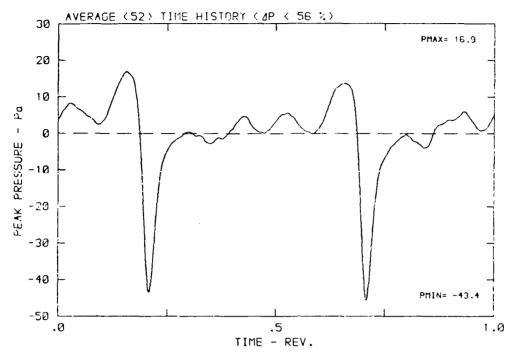


 $\beta\colon\,21.6^{\circ}\,$ NH: .7710 n: 2400 npm v/u: .303 $\,\varphi\colon\,.0^{\circ}\,$ T: 297.9 k

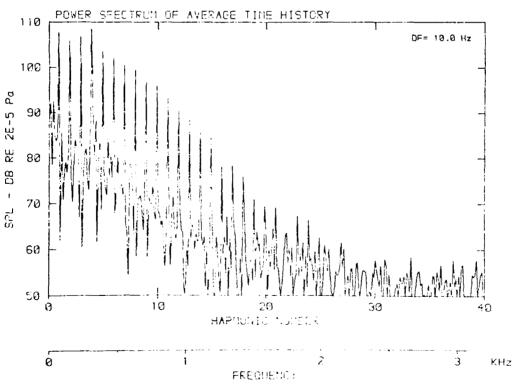




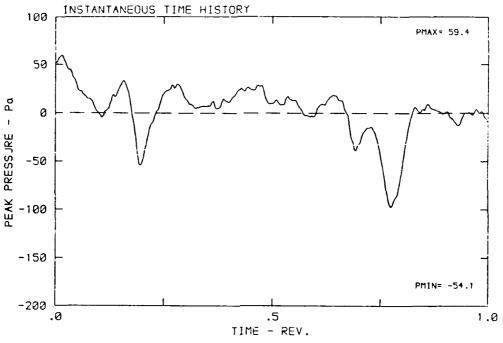
 β : 21.6° MH: .7710 n: 2400 rpm v/u: .303 ϕ : .0° T: 297.9 K

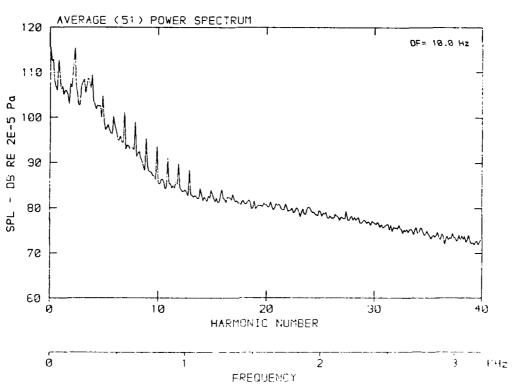


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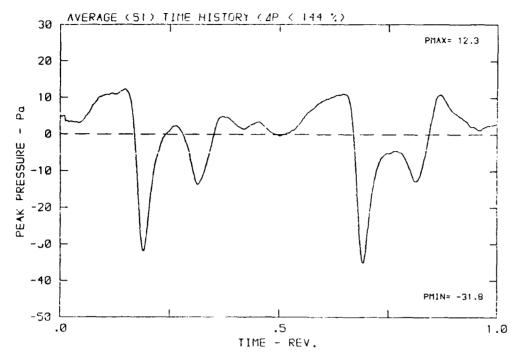
 $\beta\colon\,21.6^{\circ}\,$ MH: .7710 n: 2400 npm v/u: .303 $\varphi\colon\,.0^{\circ}\,$ T: 297.9 K

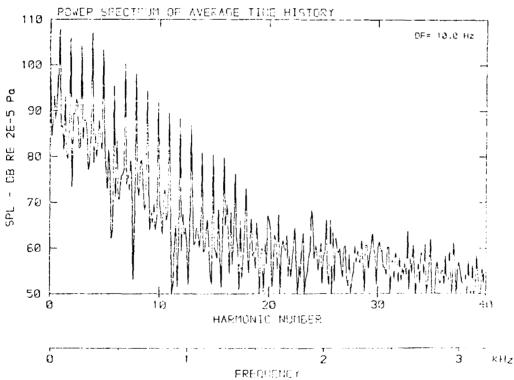




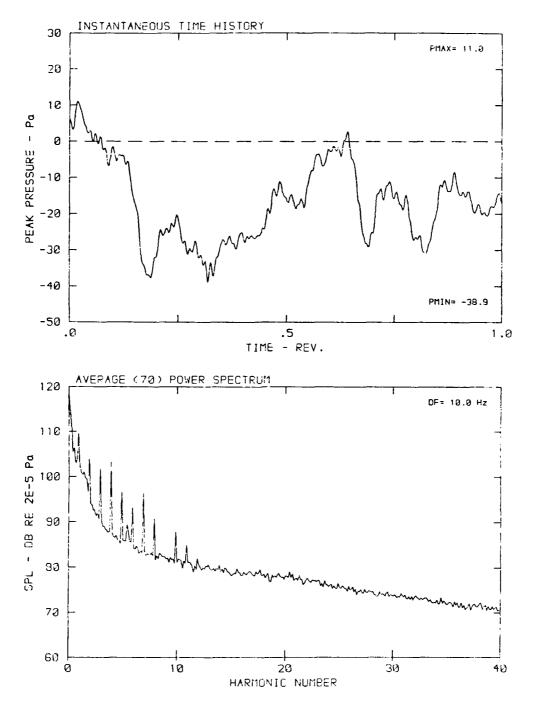
THOSE PROCESSES STATE

 $\beta\colon\,21.6^{\circ}\,$ MH: .7710 n: 2400 rpm v/u: .303 $\varphi\colon\,.0^{\circ}\,$ T: 297.9 K





 $\beta\colon\,21.6^{\circ}\,$ MH: .7710 n: 2400 rpm v/u: .303 $\varphi\colon\,.0^{\circ}\,$ T: 297.9 K

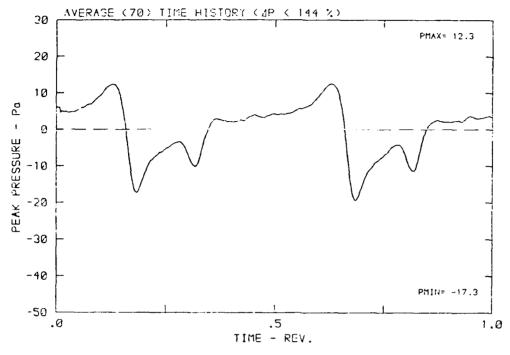


EPEQUENCY

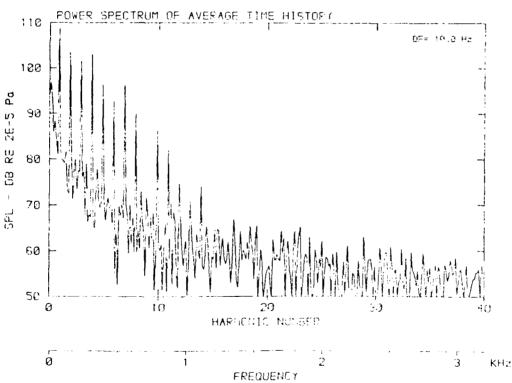
3

0

 β : 21.6° MH: .7710 n: 2400 rpm v/u: .303 ϕ : .0° T: 297.9 K



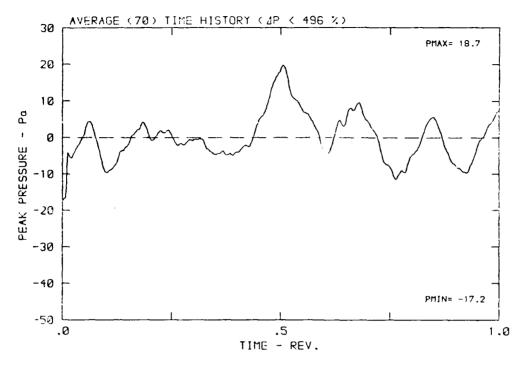
CONTRACT RESERVED ANNOUND SOFTEEN

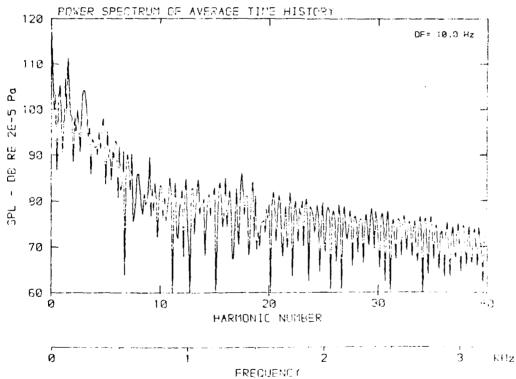


β: 21.6° MH: .7710 n: 2400 npm ν/u: .303 φ: .0°T: 297.9 K NSTANTANEDUS TIME HISTORY 100 -400 -500 .0 .5 1.0 TIME - REV. (70) POWER SPECTRUM DF= 10.0 Hz 130 DB RE 2E-5 Pa 100 90 89 20 HARMONIC NUMBER 10 39 40 é KHZ

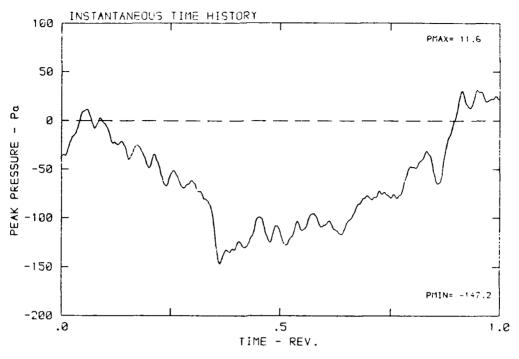
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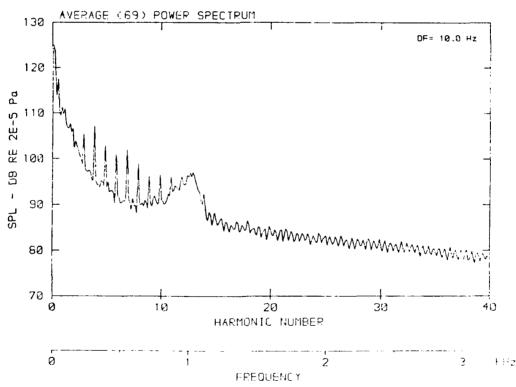
 $\beta\colon\,21.6^{\circ}\,$ MH: .7710 n: 2400 rpm v/u: .303 $\varphi\colon\,.0^{\circ}\,$ T: 297.9 K



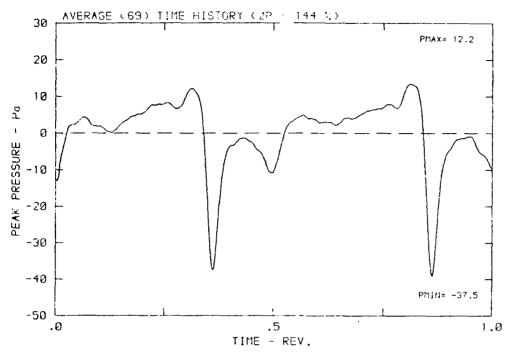


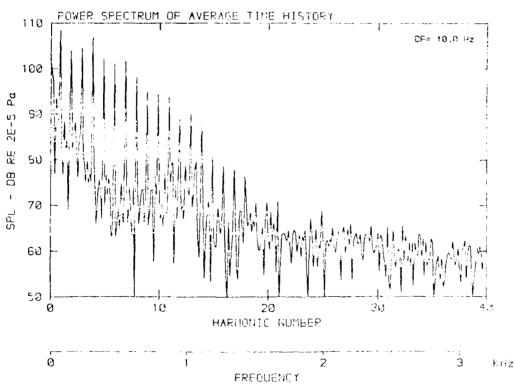
β: 21.6° MH: .7710 n: 2400 rpm v/u: .303 φ: .0° T: 297.9 κ



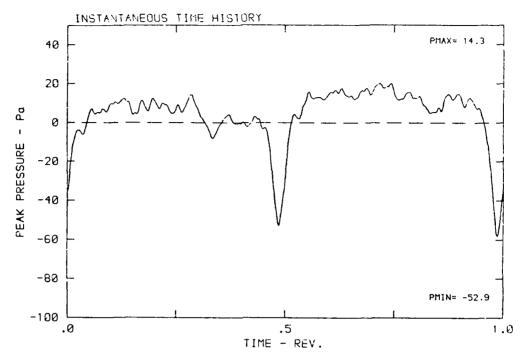


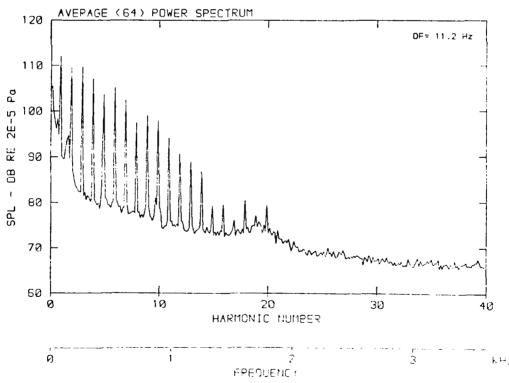
β: 21.6° MH: .7710 n: 2400 rpm ν/u: .303 φ: .0° T: 297.9 K





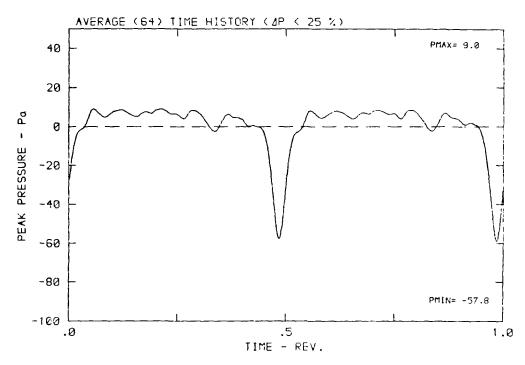
 β : 21.6° MH: .8592 n: 2700 rpm v/u: .269 ϕ : .0° T: 298.3 K



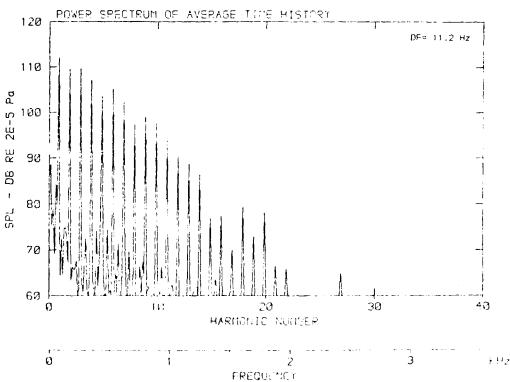


response to the second of the second second

 β : 21.6° MH: .8592 n: 2700 rpm v/u: .269 ϕ : .0° T: 298.3 κ

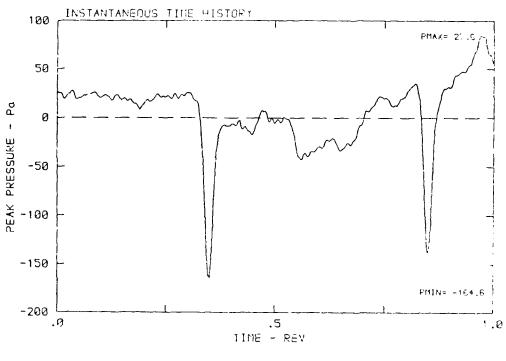


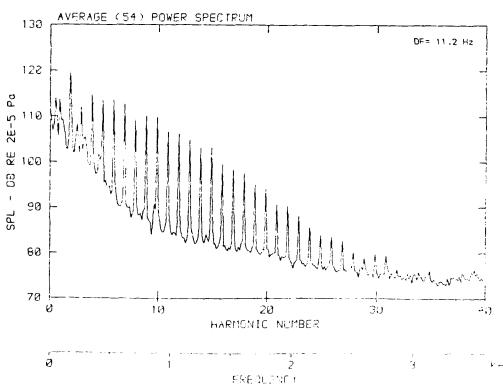
STREET, STREET



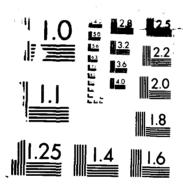
DATA POINT: JOHN RUN: 1847 NP:

β: 21.6° MH: .8592 n: 2700 mpm γ/u: .269 φ: .0° T: 299.3 k



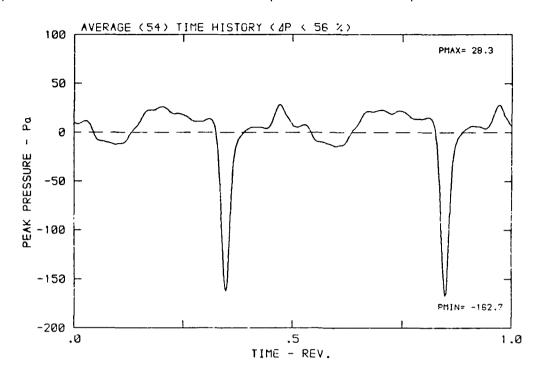


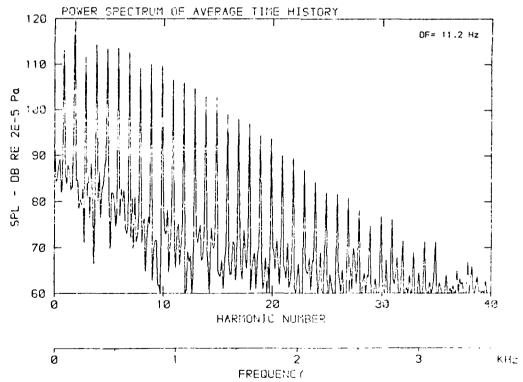
DFVLR/FAR (DEUTSCHE FORSCHUNGS-UND VERSUCHSANSTALT FUER LUFT UND RAUMFAHR. . (U) DEUTSCHE FORSCHUNGS- UND VERSUCHSANSTALT FUER LUFT- UND RAUMF. . N N DOBRZYNSKI ET AL. 1986 F/G 20/1 AD-A174 979 UNCLASSIFIED NL



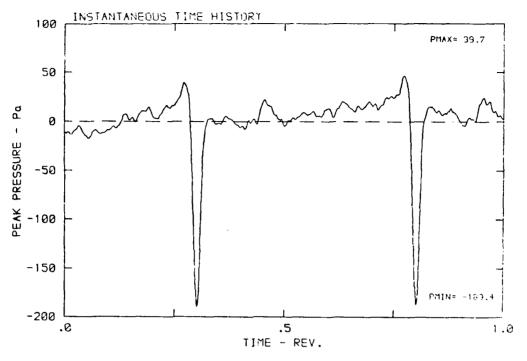
V = 1 mm RESOLUTION TEST CHART

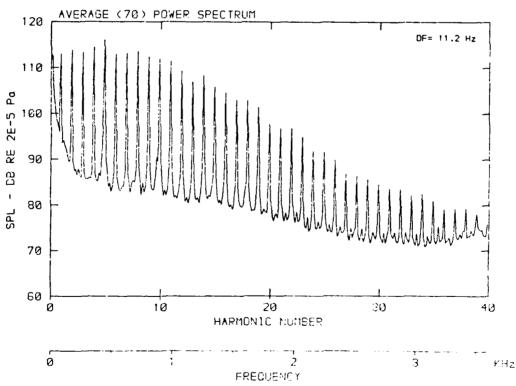
 β : 21.6° MH: .8592 n: 2700 rpm v/u: .269 ϕ : .0° T: 298.3 K



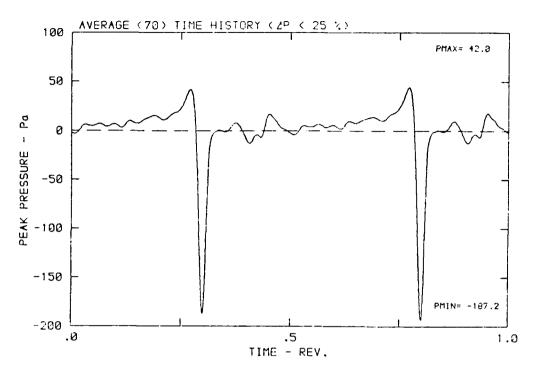


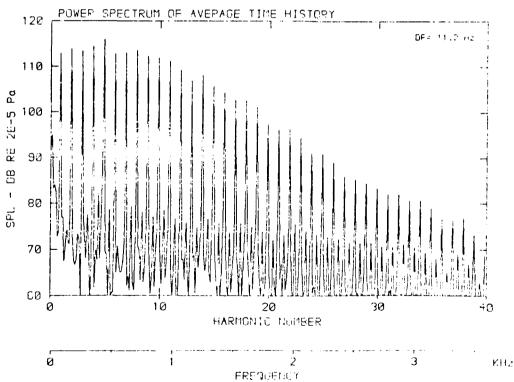
β: 21.6° MH: .9592 n: 2700 rpm v/u: .269 φ: .0° T: 293.3 K



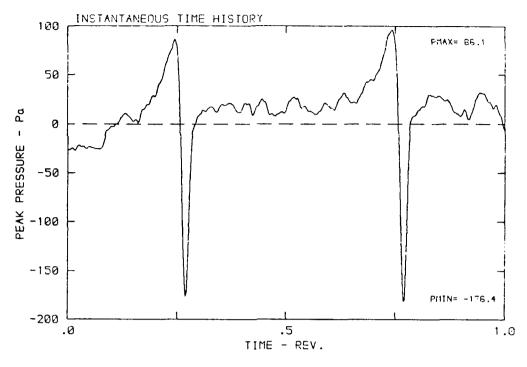


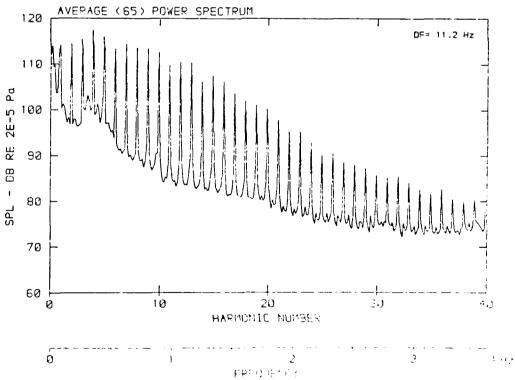
 $\beta\colon\thinspace 21.6^{\text{o}}$ MH: .8592 n: 2700 rpm v/u: .269 $\varphi\colon\:.0^{\text{o}}$ T: 298.3 K



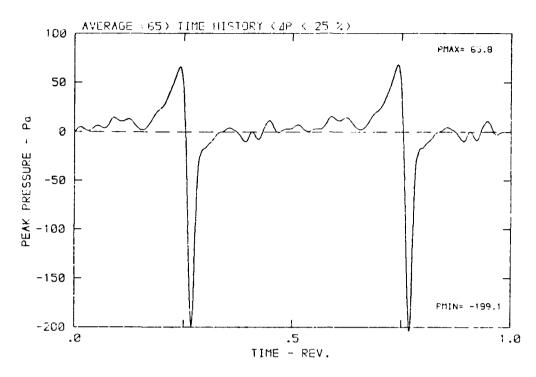


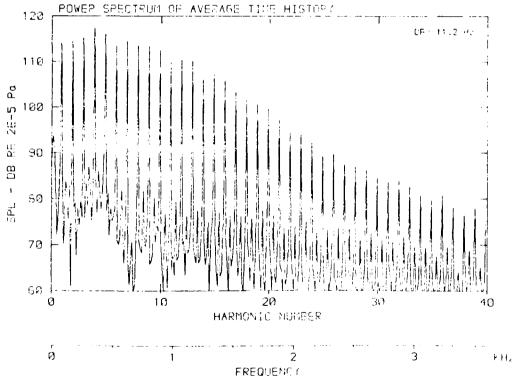
 $\beta\colon\,21.6^{\circ}\,$ MH: .8592 n: 2700 npm v/u: .269 $\varphi\colon\,.0^{\circ}\,$ T: 203.3 \times



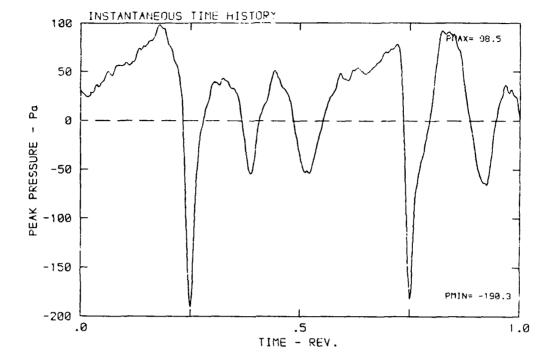


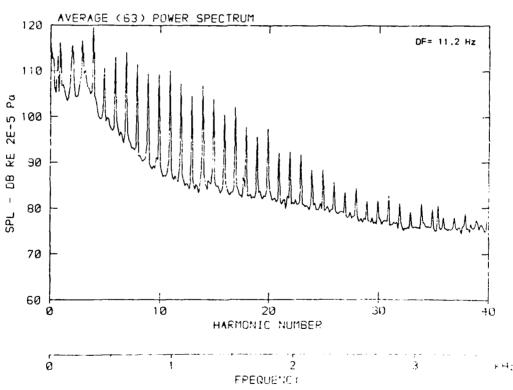
 β : 21.6° MH: .3592 n: 2700 rpm v/u: .269 ϕ : .0° T: 298.3 K



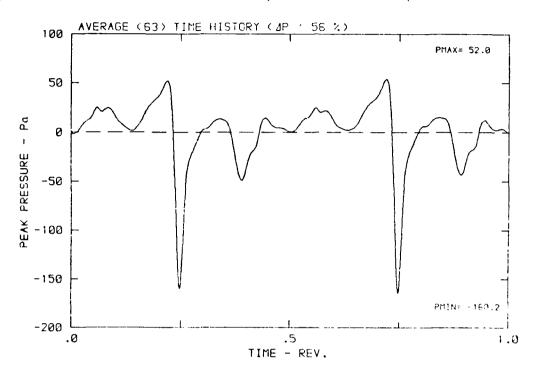


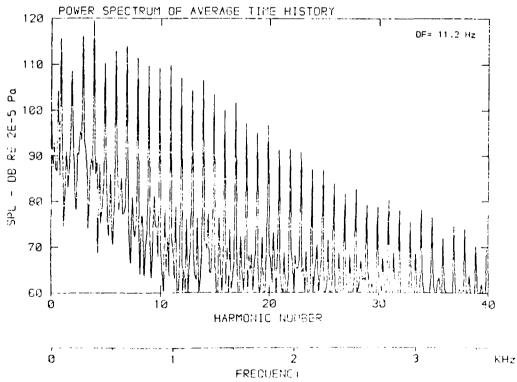
β: 21.6° MH: .8592 n: 2700 rpm ν/u: .269 φ: .0° T: 298.3 K



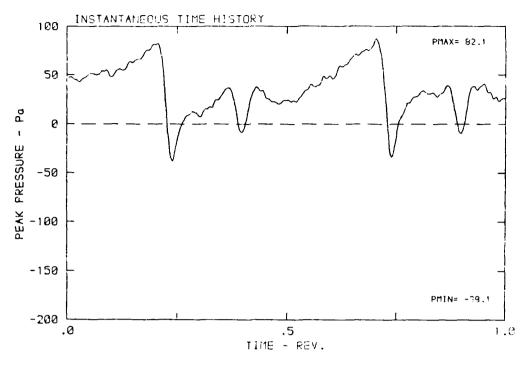


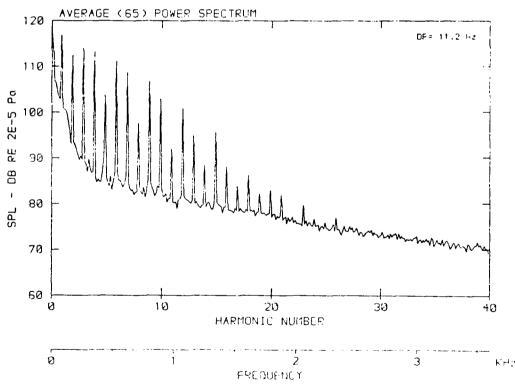
 β : 21.6° MH: .8592 n: 2700 rpm v/u: .269 ϕ : .0° T: 298.3 K



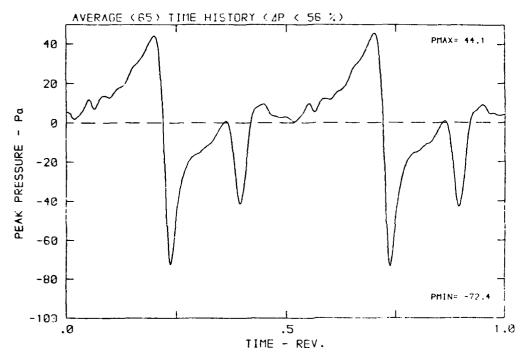


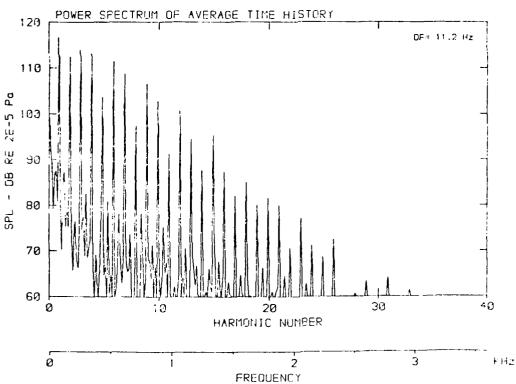
β: 21.6° MH: .8592 n: 2700 rpm ν/u: .260 φ: .0° I: 298.3 K



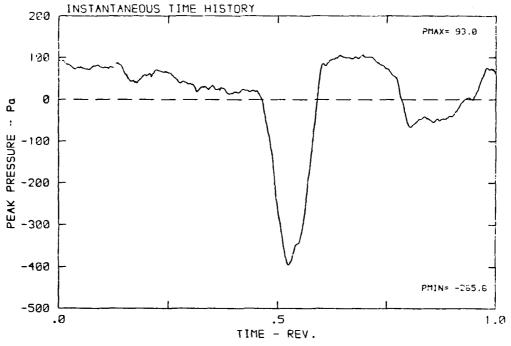


β: 21.6° MH: .8592 n: 2700 rpm v/u: .269 φ: .0° T: 298.3 K

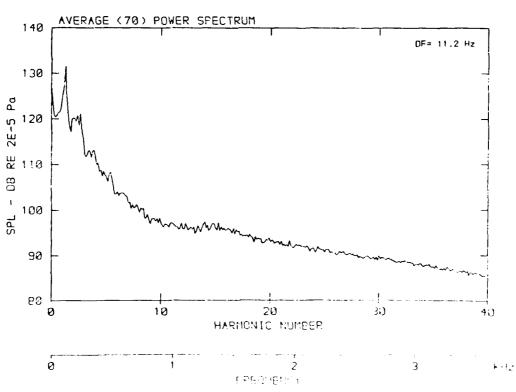




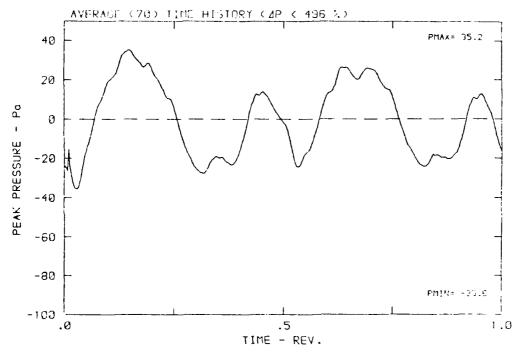
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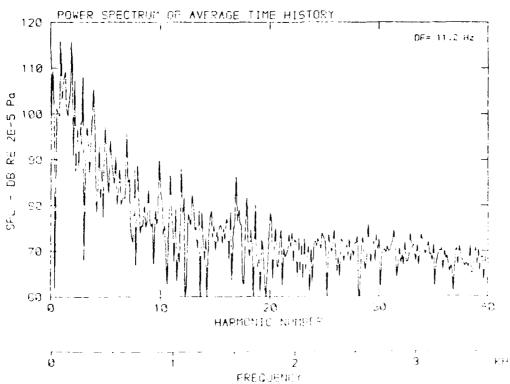


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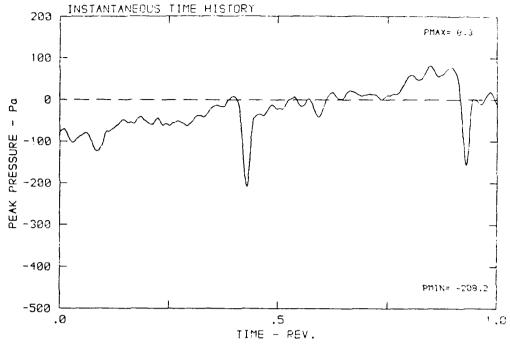


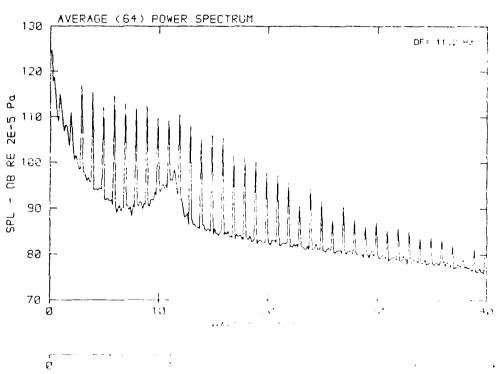
 β : 21.6° MH: .8592 n: 2700 npm v/u: .269 ϕ : .0° T: 298.3 K



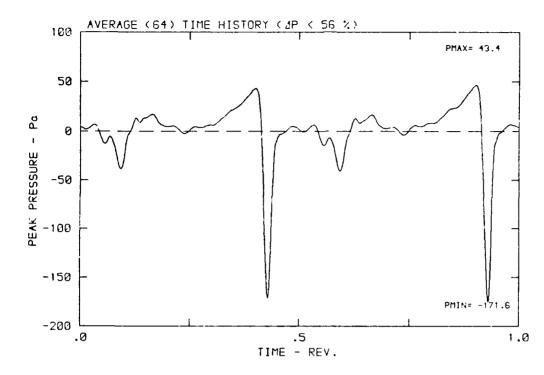


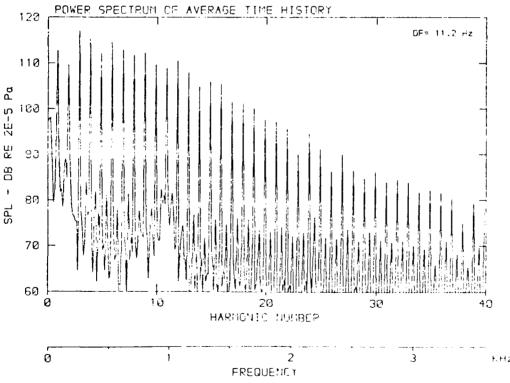
 β : 21.6° MH: .8592 n: 2700 npm v/u: .269 ϕ : .0° 1: 295.3



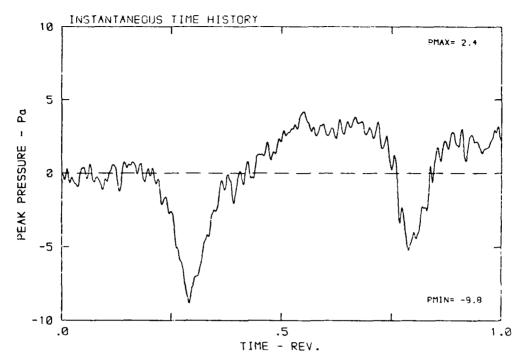


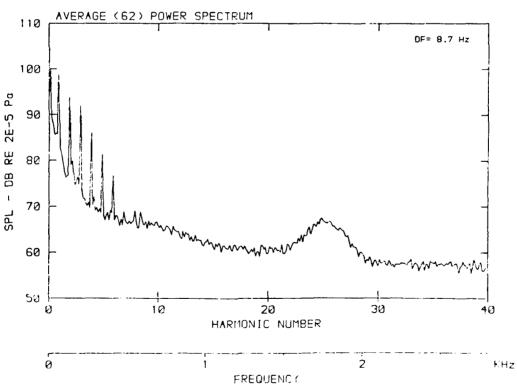
 β : 21.6° MH: .8592 n: 2700 rpm v/u: .269 ϕ : .0° T: 298.3 K



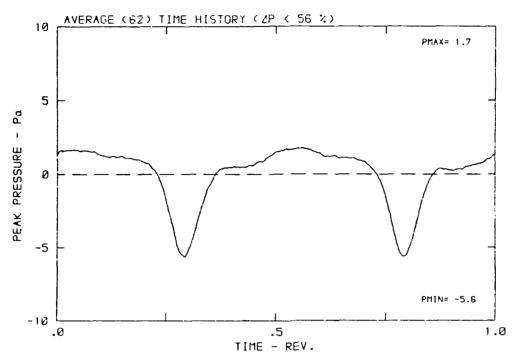


β: 20.7° MH: .6625 n: 2100 rpm v/u: .230 φ: .0° T: 257.9 K

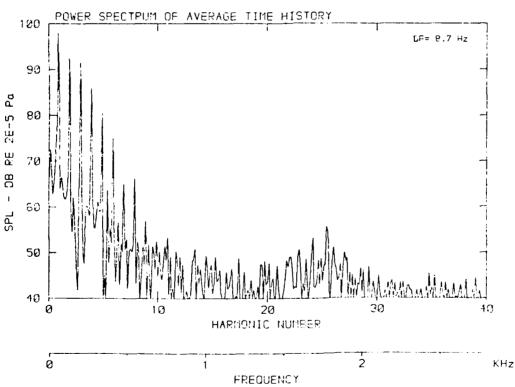




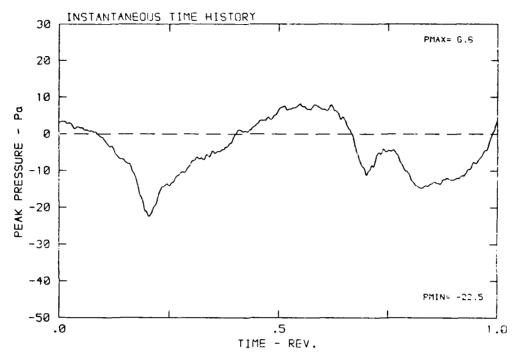
 $\beta\colon\,20.7^{\circ}\,$ MH: .6625 n: 2100 rpm v/u: .230 $\varphi\colon\,.0^{\circ}\,$ T: 297.9 K

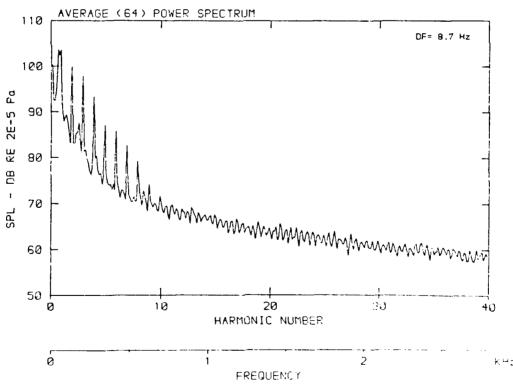


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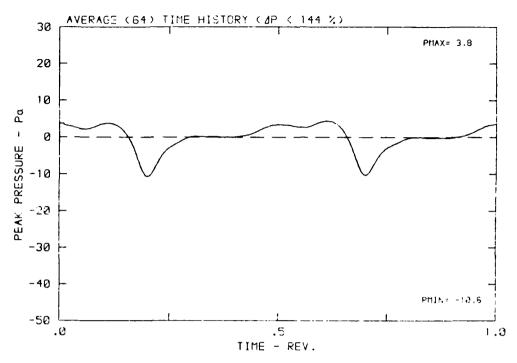


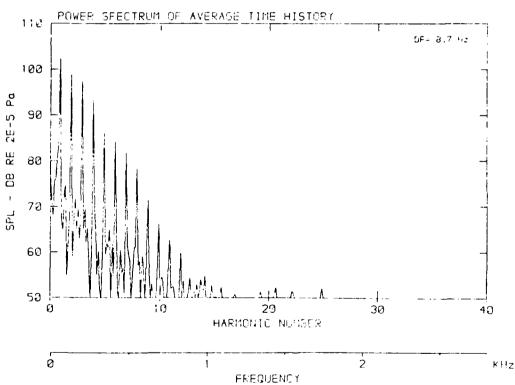
 β : 20.7° MH: .6625 n: 2100 npm v/u: .230 ϕ : .0° T: 297.9 K



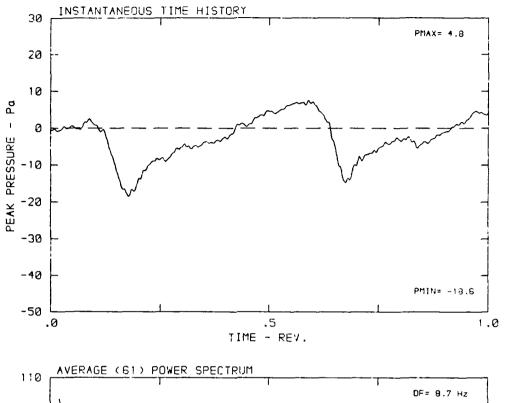


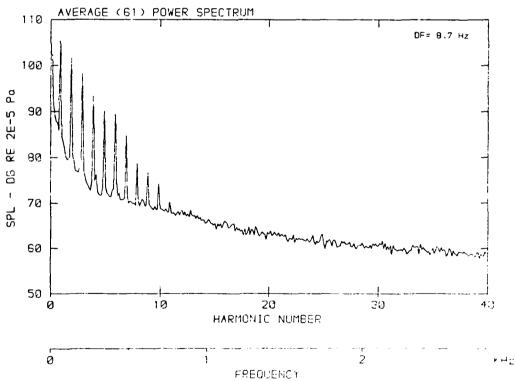
β: 20.7° MH: .6625 n: 2100 rpm v/u: .230 φ: .0° T: 297.9 K



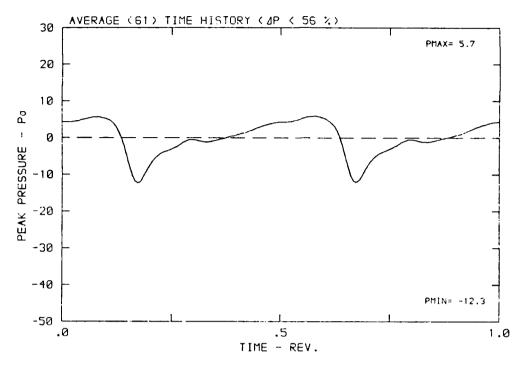


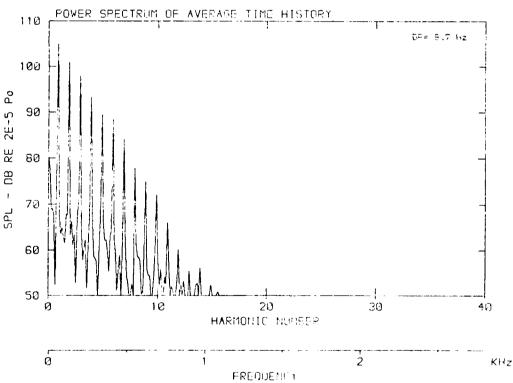
 $β: 20.7^{\circ}$ MH: .6625 n: 2100 rpm v/u: .230 φ: .0° T: 297.9 K



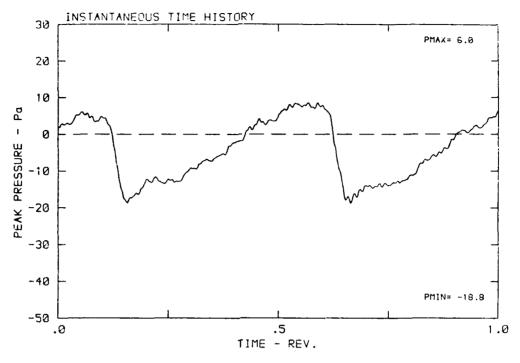


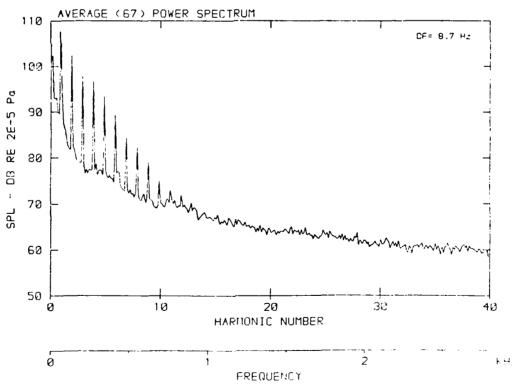
 β : 20.7° MH: .6625 n: 2100 rpm v/u: .230 ϕ : .0° T: 297.9 K



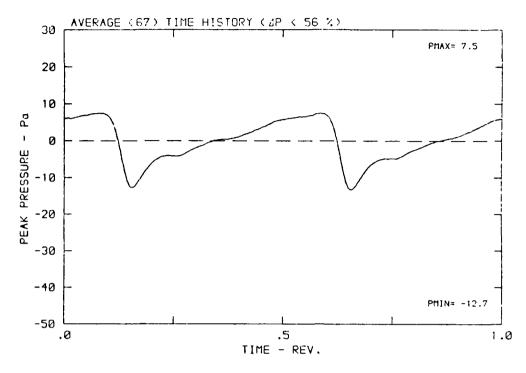


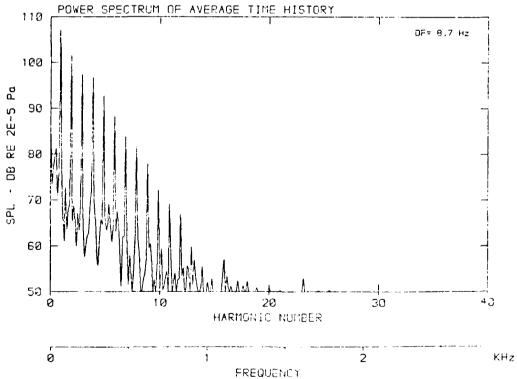
β: 20.7° MH: .6625 n: 2100 npm v/u: .230 φ: .0° T: 297.9



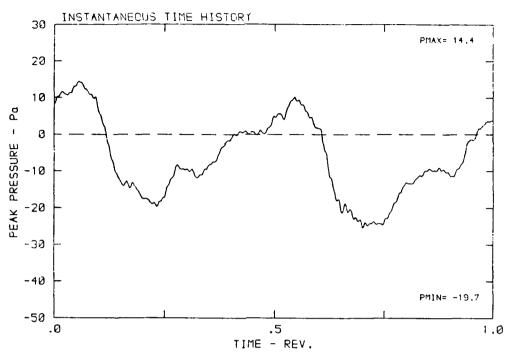


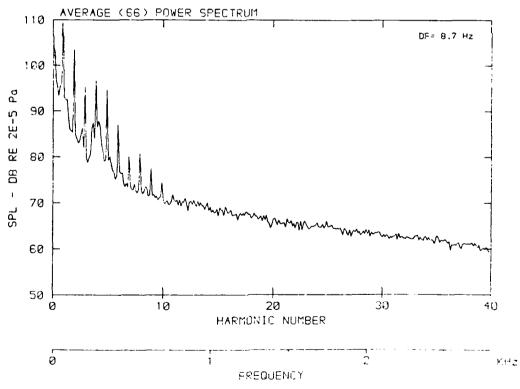
 β : 20.7° MH: .6625 n: 2100 rpm v/u: .230 ϕ : .0° T: 297.9 K





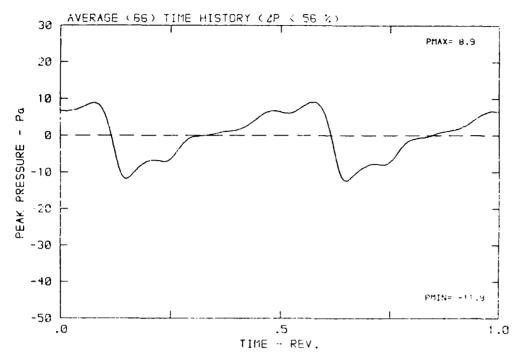
 $β: 20.7^{\circ}$ MH: .6625 n: 2100 rpm v/u: .230 $φ: .0^{\circ}$ T: 391.9 κ

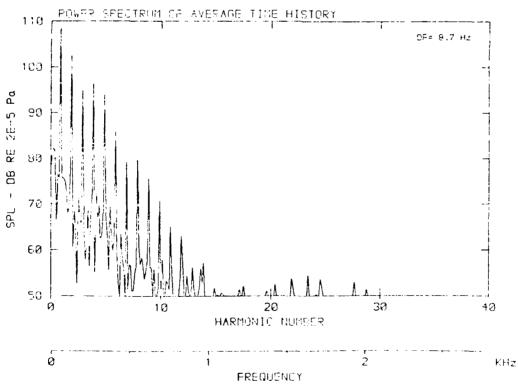




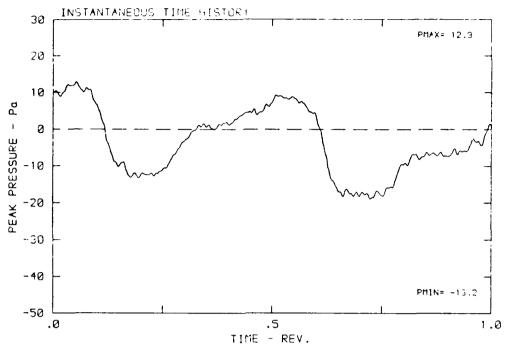
 β : 20.7° MH: .6625 n: 2100 rpm v/u: .230 ϕ : .0° T: 297.9 k

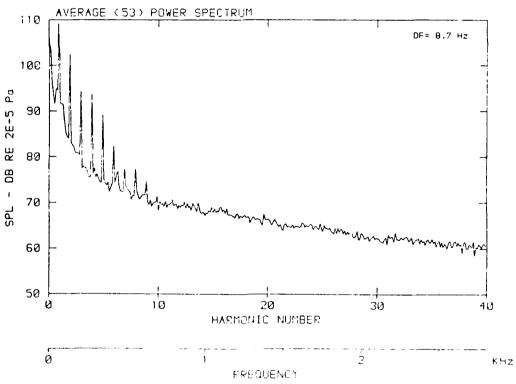
5555 5555552 6556666



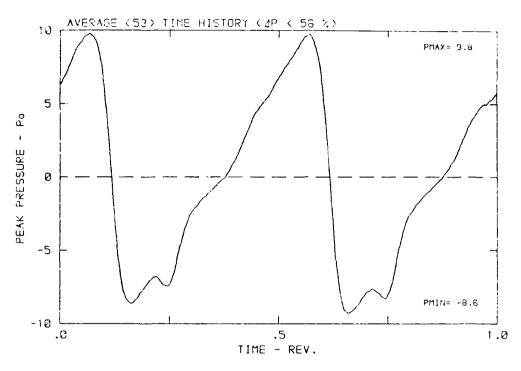


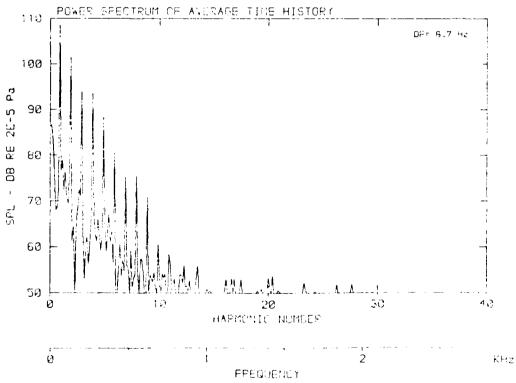
8: 20.7° MH: .6625 n: 2100 npm γ/u: .230 φ: .0° T: 290.5 k



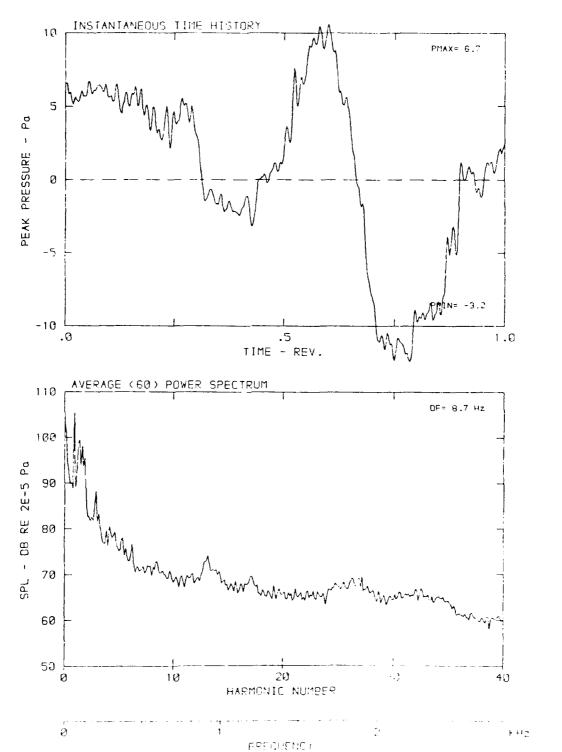


β: 20.7° MH: .6625 n: 2100 rpm v/u: .230 φ: .0° T: 297.9 K

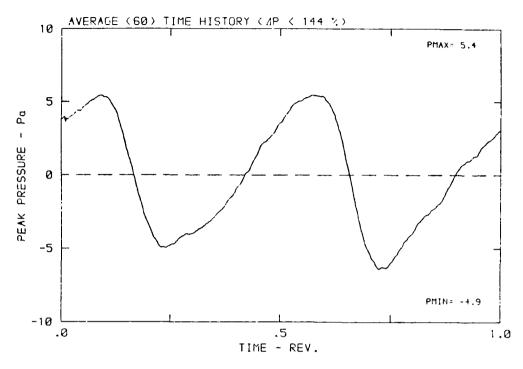


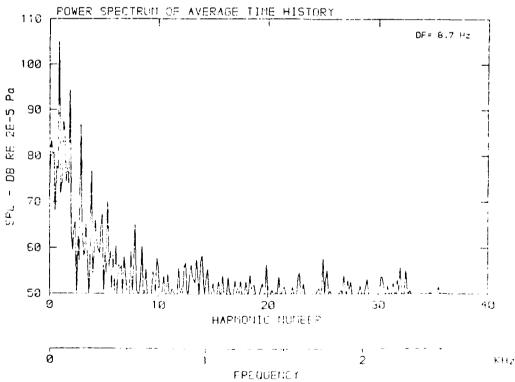


 $\beta\colon\,20.7^{\circ}\,$ MH: .6625 n: 2100 npm $\text{ v/u}\colon\,.230\,$ $\psi\colon\,.0^{\circ}\,$ T: 297.9 K

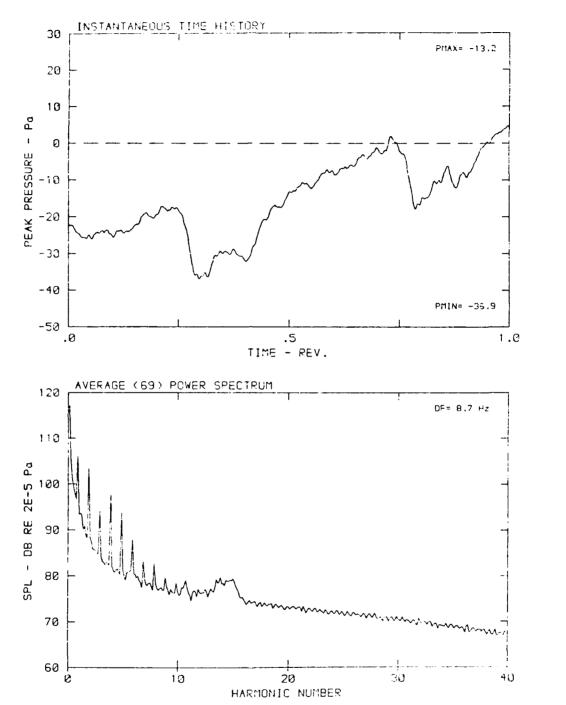


β: 20.7° MH: .6625 n: 2100 rpm v/u: .230 φ: .0° T: 297.9 K





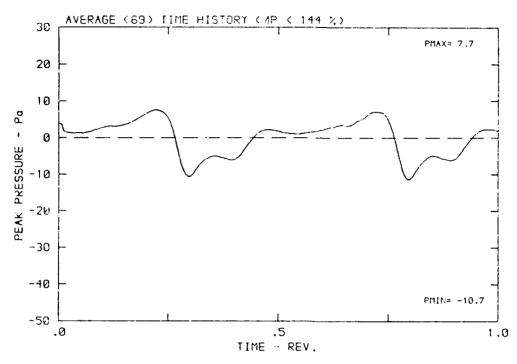
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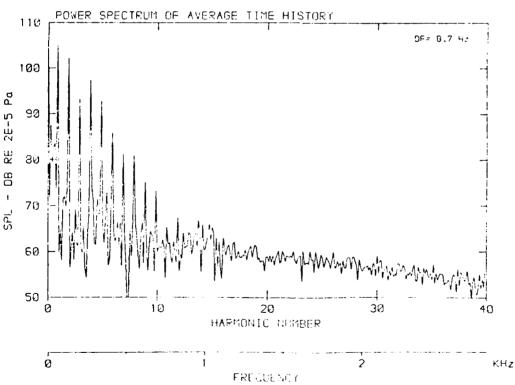


FREQUENCY

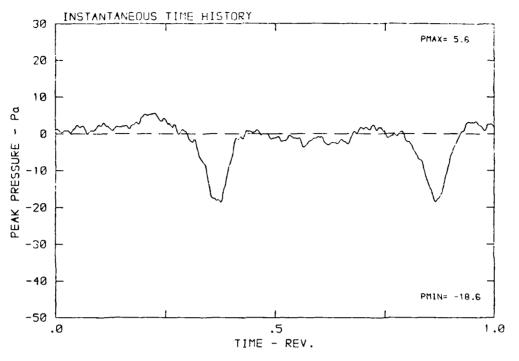
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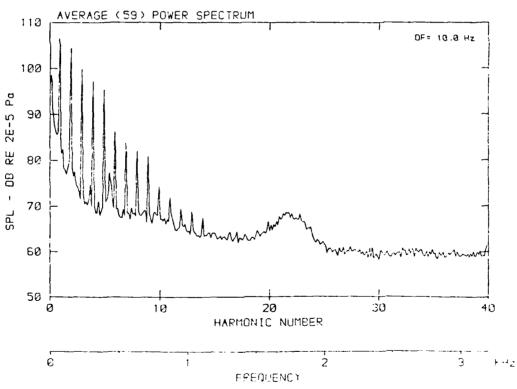
 $\beta\colon 20.7^{\circ}$ MH: .6625 n: 2100 rpm v/u: .230 $\varphi\colon .0^{\circ}$ T: 297.9 K



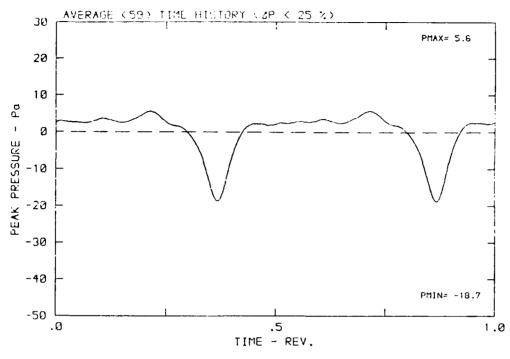


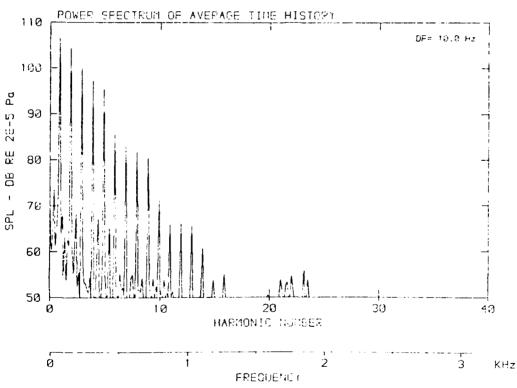
β: 20.7° MH: .7524 n: 2400 npm v/u: .203 φ: .0° T: 203.4 2



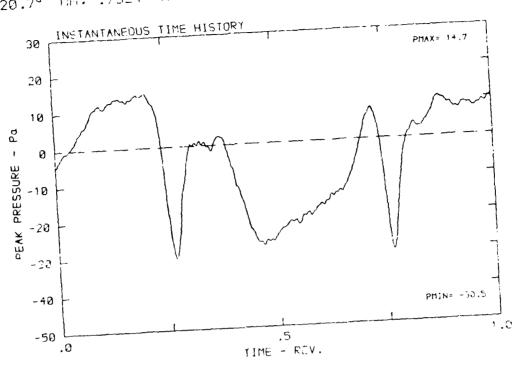


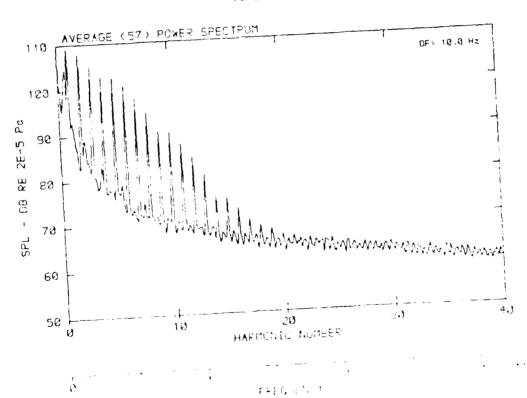
 $\beta\colon\,20.7^{\circ}\,$ MH: .7524 n: 2400 npm v/u: .203 $\varphi\colon\,.0^{\circ}\,$ T: 298.4 κ



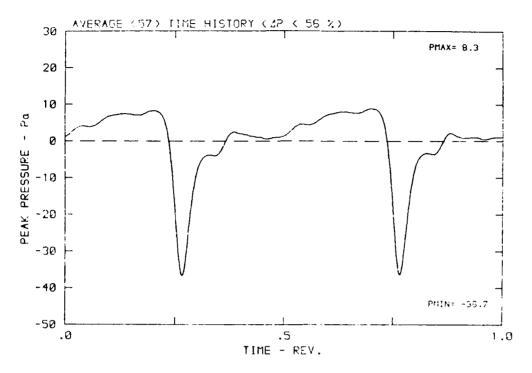


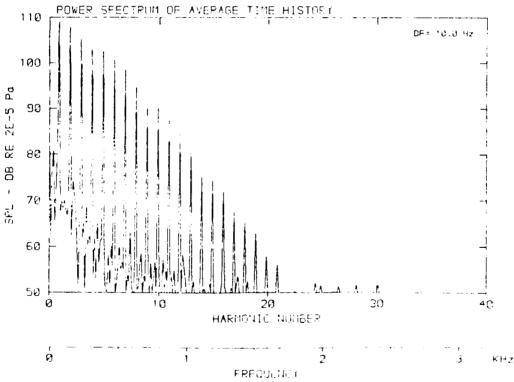
n: 2400 rpm β: 20.7°



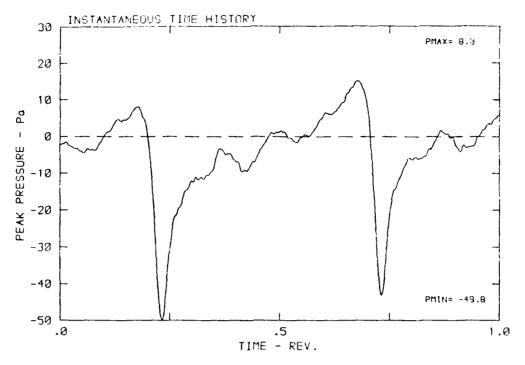


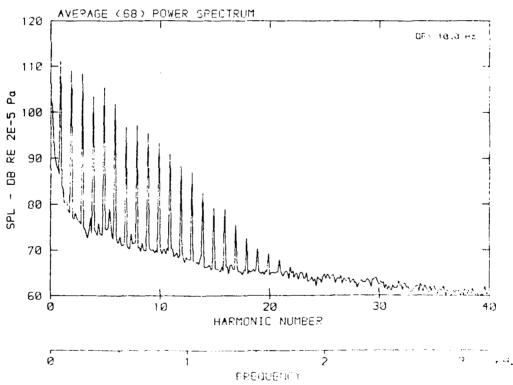
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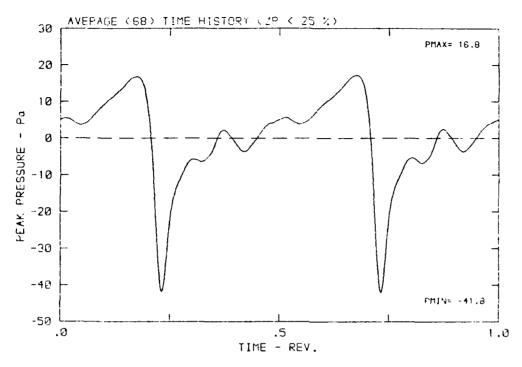


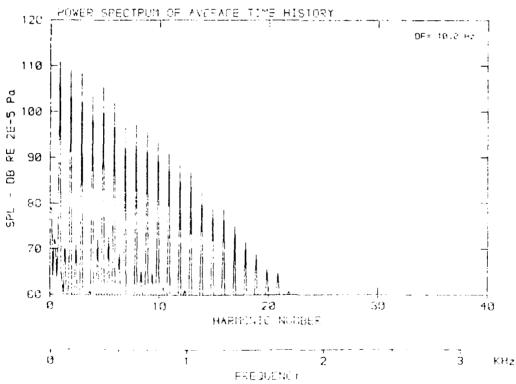
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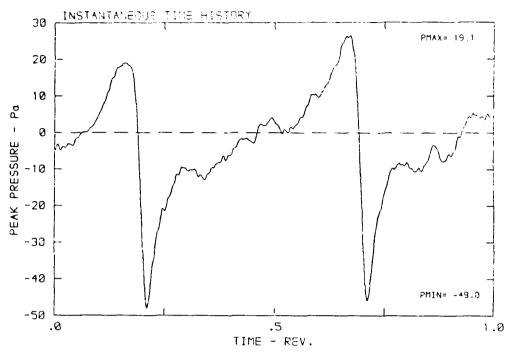


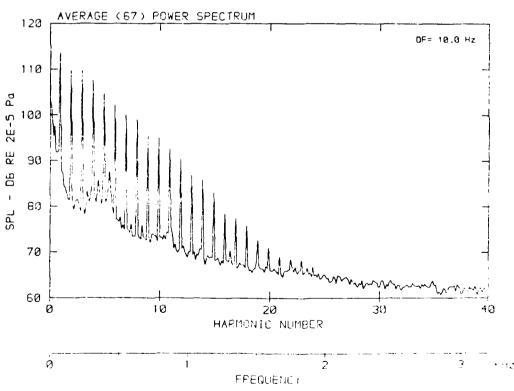
β: 20.7° MH: .7524 n: 2400 npm v u: .203 φ: .0° T: 298.4 ν



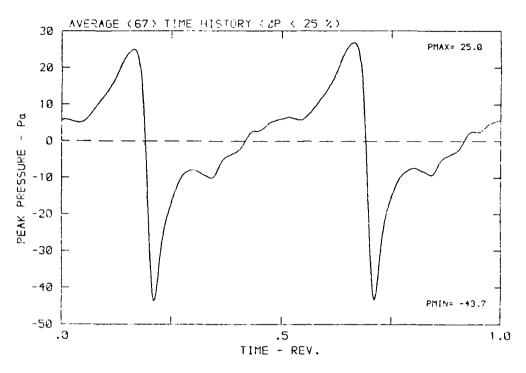


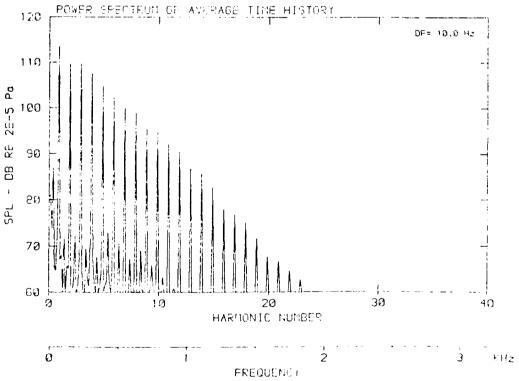
β: 20.7° MH: .7524 n: 3480 rpm γ/u: .203 φ: .0° T: 298.4 K



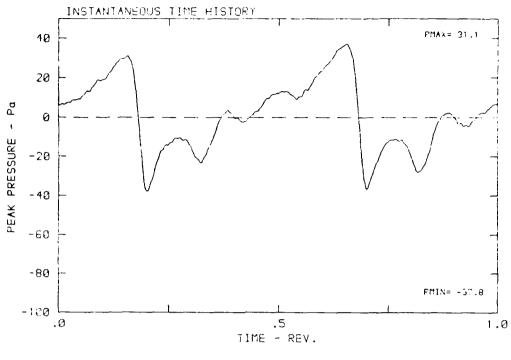


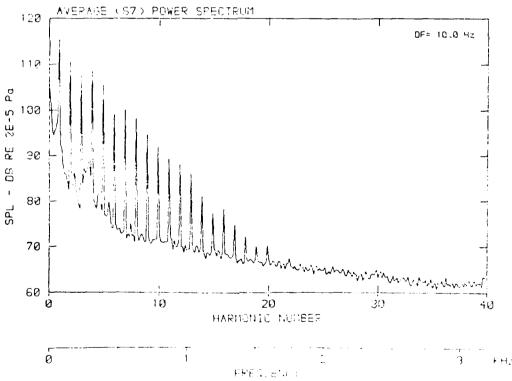
 $\beta\colon 20.7^{\circ}$ MH: .7524 n: 2400 rpm v/u: .203 $\varphi\colon .0^{\circ}$ T: 298.4 K



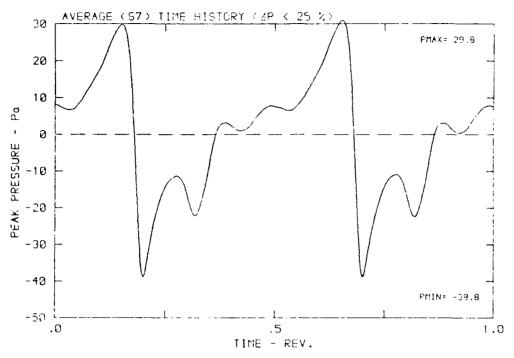


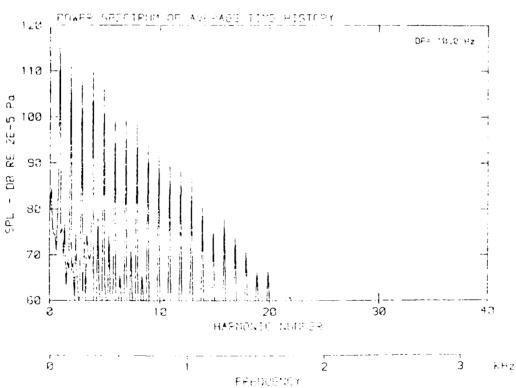
8: 20.7° MH: .7524 n: 2400 npm ν/u: .203 φ: .0° Τ: 293.4 K



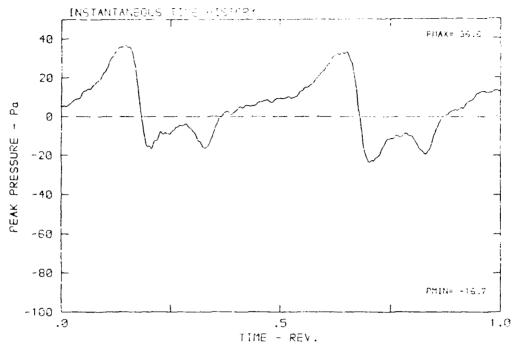


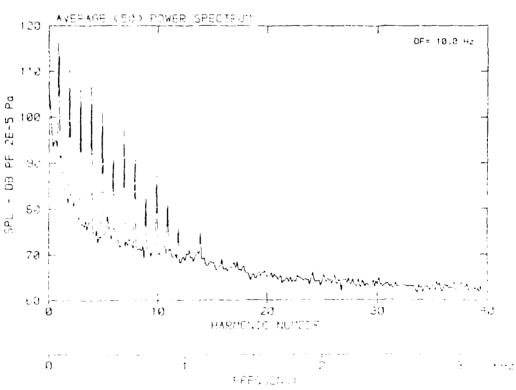
β: 20.7° MH: .7524 n: 2400 npm v/u: .203 φ: .0° I: 298.4 k



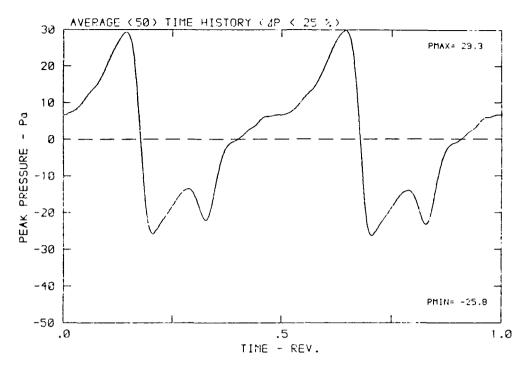


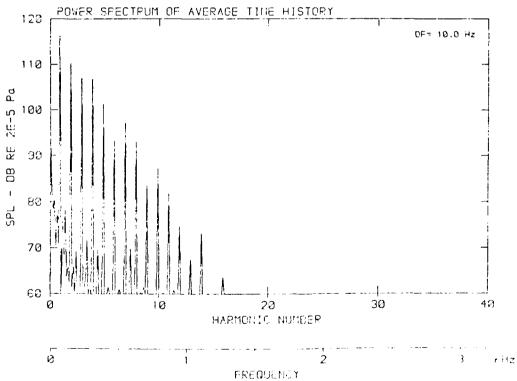
β: 20.7° MH: .7524 ϕ : 2400 ϕ : 0.000 ϕ : .00 T: 298.4 Z



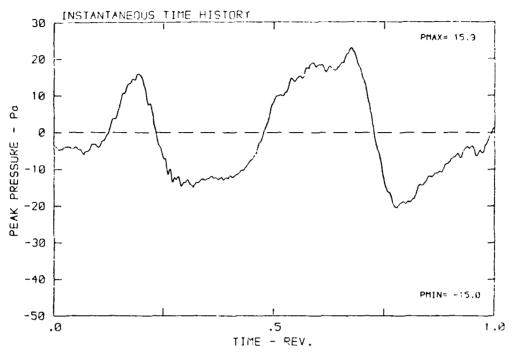


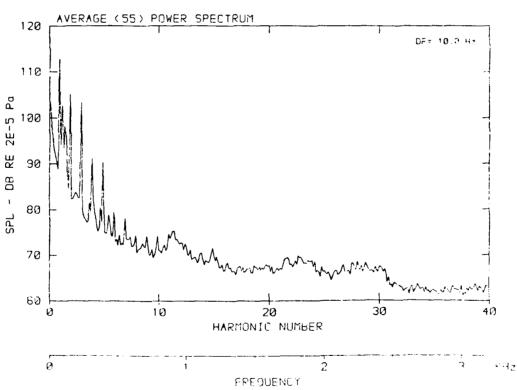
 β : 20.7° MH: .7524 n: 2400 npm v/u: .203 ϕ : .0° T: 298.4 K



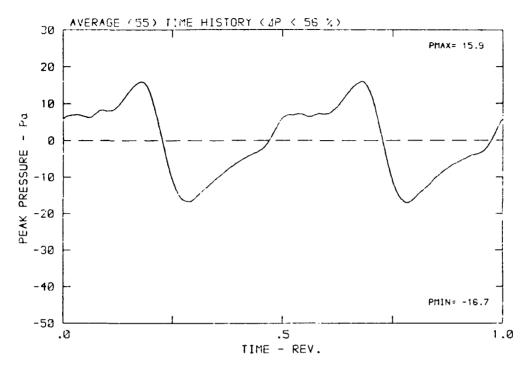


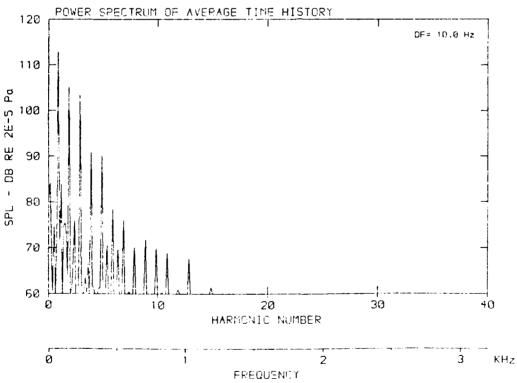
β: 20.7° MH: .7524 n: 2400 cpm γ/u: .203 φ: .0° T: 293.4 K



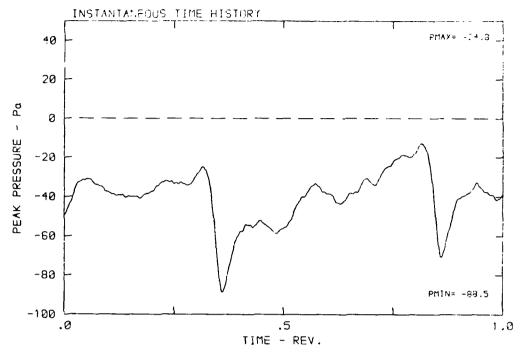


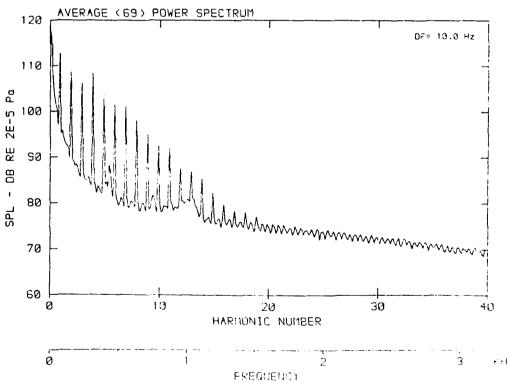
 β : 20.7° MH: .7524 n: 2400 rpm v/u: .203 ϕ : .0° T: 298.4 K



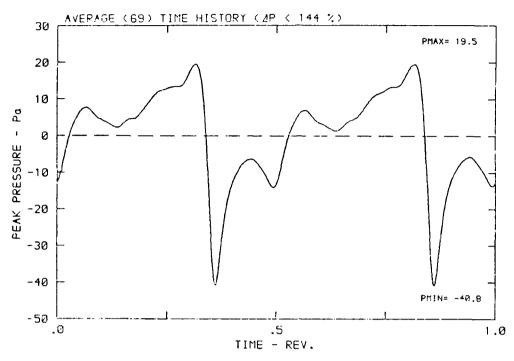


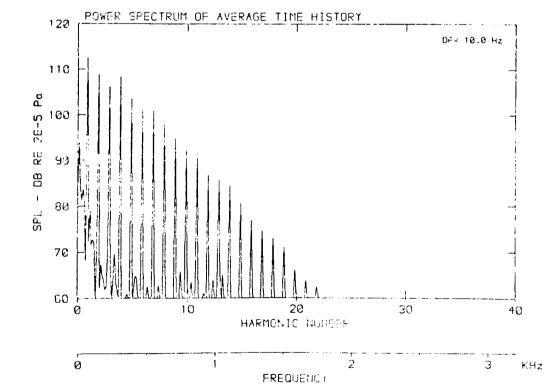
 $β: 20.7^{\circ}$ MH: .7524 n: 2400 rpm γ/u: .203 $φ: .0^{\circ}$ %: 193.4 γ



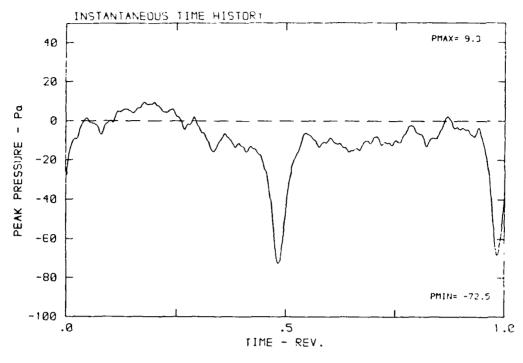


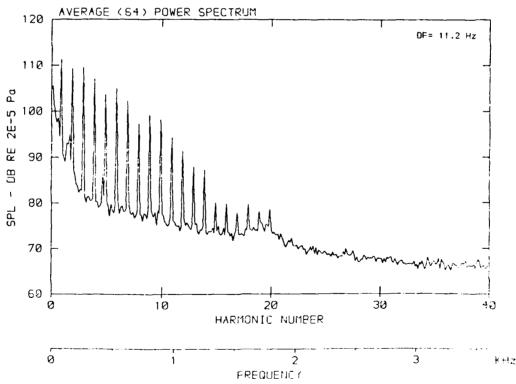
 β : 20.7° MH: .7524 n: 2400 rpm v/u: .203 ϕ : .0° T: 298.4 K



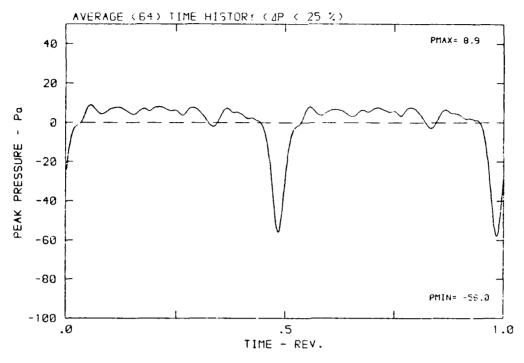


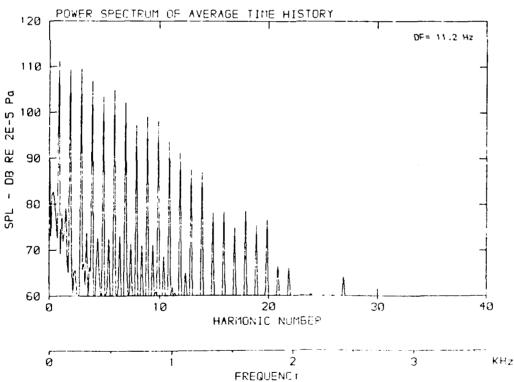
8: 20.7° MH: .8595 n: 2700 rpm ν/u: .270 φ: .0° T: 298.1 k





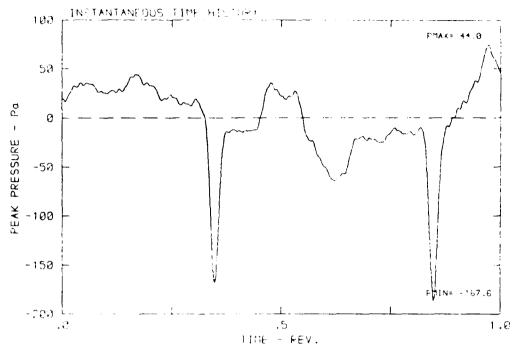
 $β: 20.7^{\circ}$ MH: .8595 n: 2700 rpm v/u: .270 φ: .0° T: 298.1 K

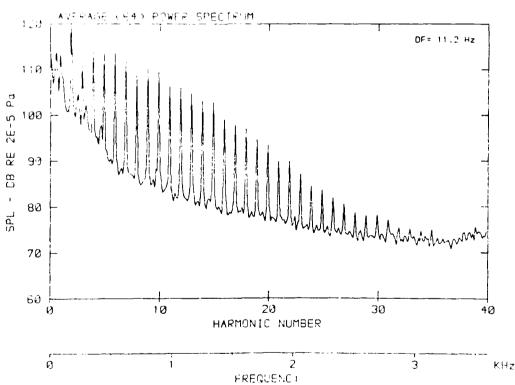




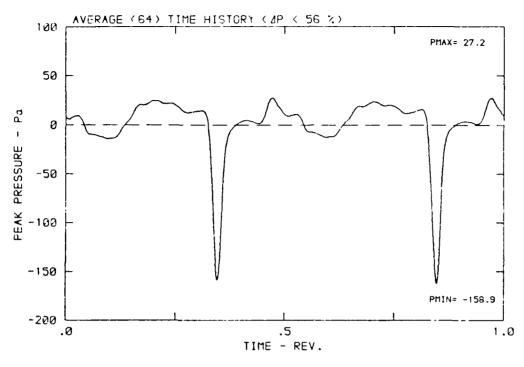
[DATA COINT: KOAR - AMA: 1027 MP: 2

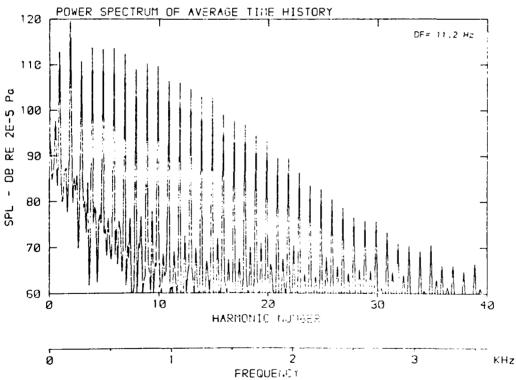
β: 20.7° NH: .8595 h: .765 e, < .76: .76 φ: .0° 1: 555.1



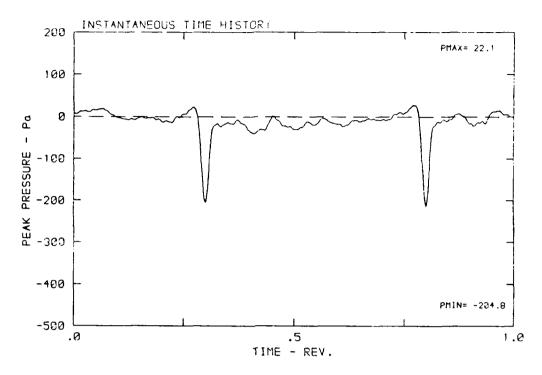


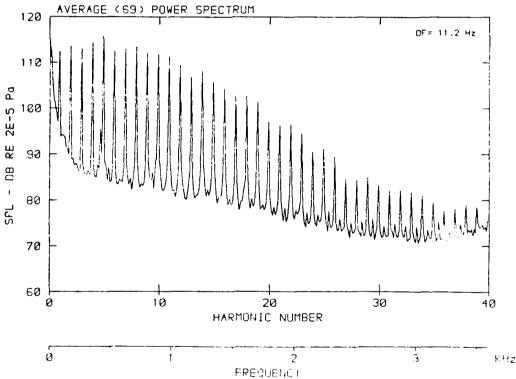
 β : 20.7° MH: .8595 n: 2700 rpm v/u: .270 ϕ : .0° T: 298.1 K





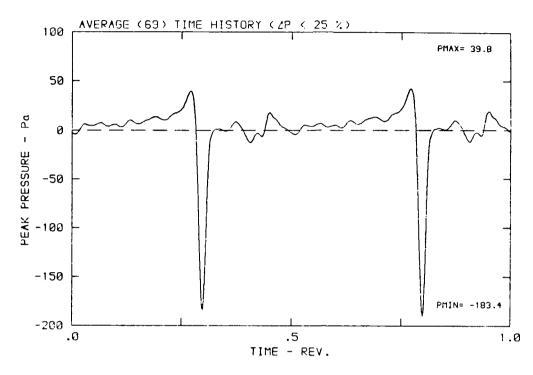
 $β: 20.7^{\circ}$ MH: .8595 n: 2700 npm v/u: .270 $φ: .0^{\circ}$ T: 298.1 K

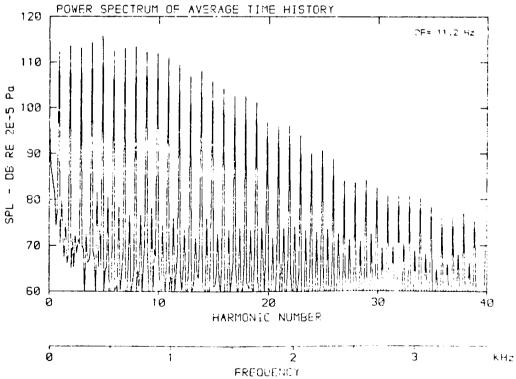




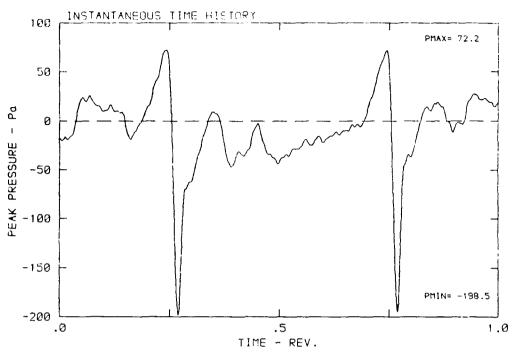
CONTRACT CONTRACTOR DESIGNATION SERVICES

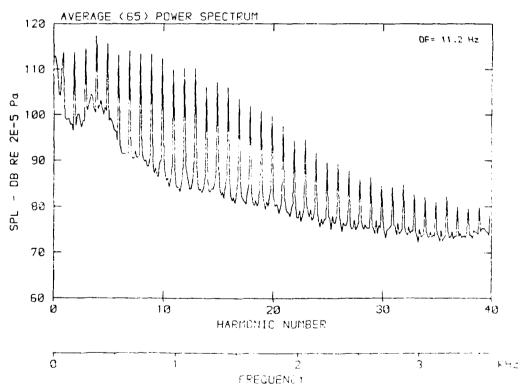
 β : 20.7° MH: .8595 n: 2700 rpm v/u: .270 ϕ : .0° T: 298.1 K



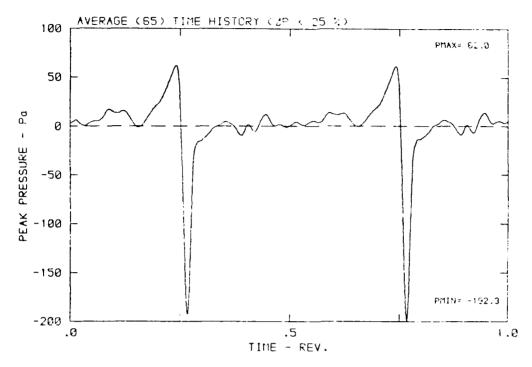


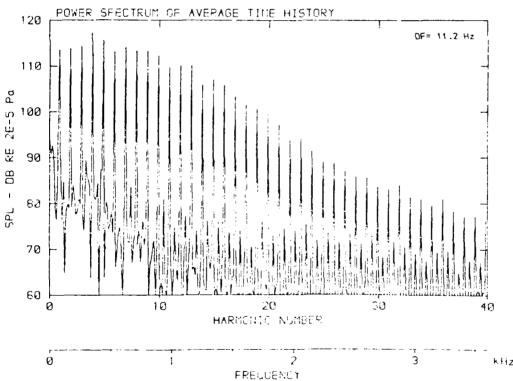
β: 20.7° MH: .8595 n: 2700 npm γ/u: .270 φ: .0° T: 293.1 μ



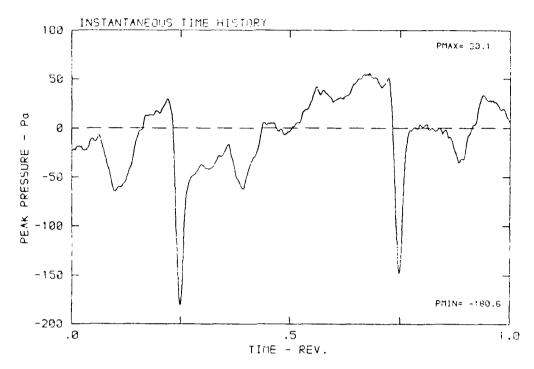


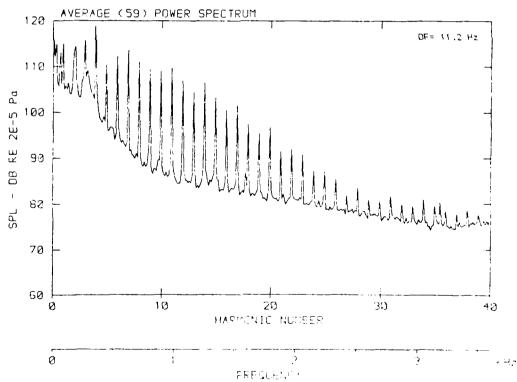
β: 20.7° MH: .8595 n: 2700 npm γ/u: .270 φ: .0° Τ: 239.1 K



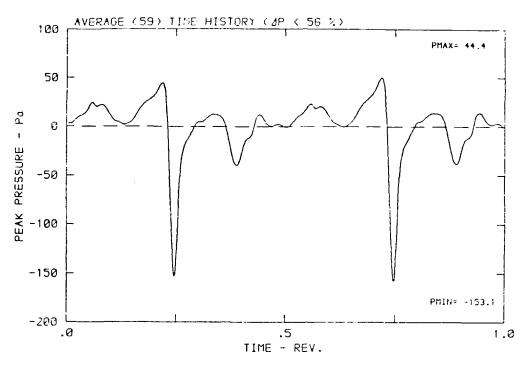


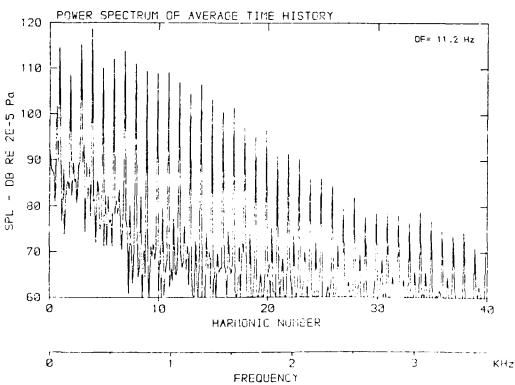
β: 20.7° MH: .8595 n: 2700 npm γ/u: .273 φ: .0° T: 2.3.



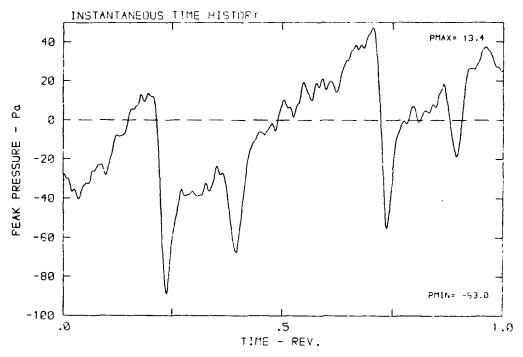


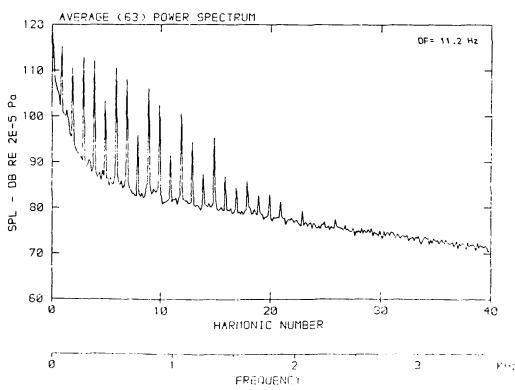
 $\beta\colon\,20.7^{\circ}\,$ MH: .8595 n: 2700 rpm v/u: .270 $\varphi\colon\,.0^{\circ}\,$ T: 293.1 K



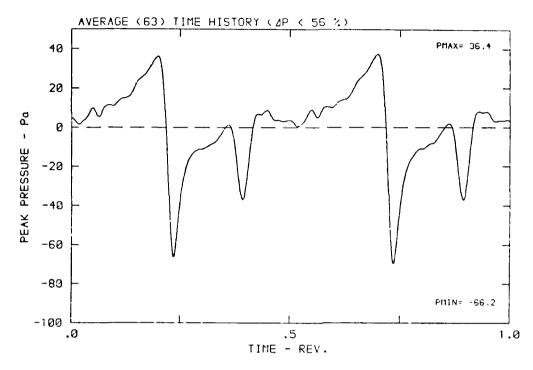


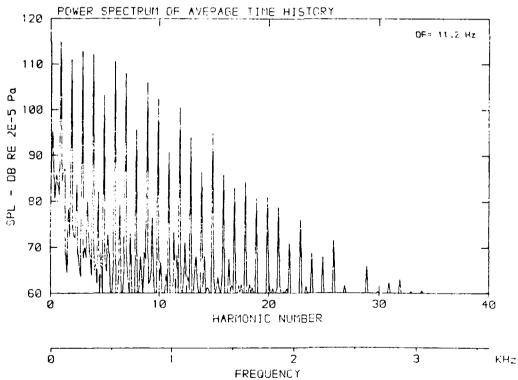
β: 20.7° MH: .8595 n: 2700 rpm ν/u: .270 φ: .0° T: 298.1 K





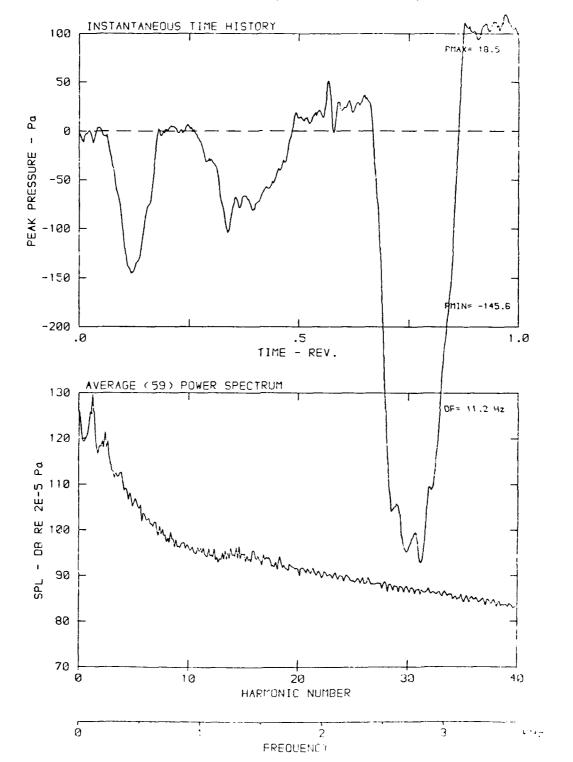
β: 20.7° MH: .8595 n: 2700 rpm v/u: .270 φ: .0° T: 298.1 K



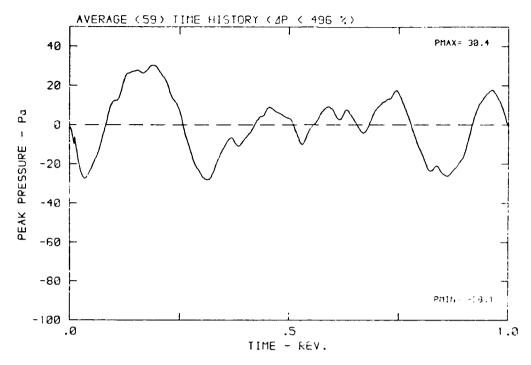


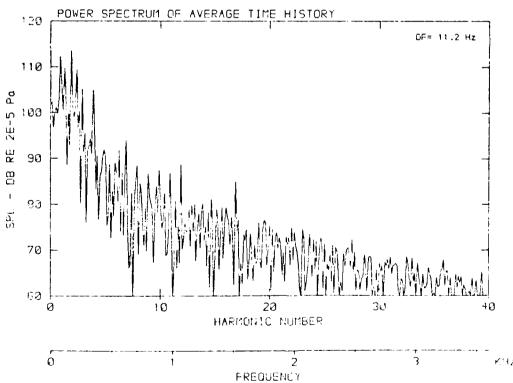
THE PARTY AND THE PROPERTY OF THE PARTY OF T

β: 20.7° MH: .8595 n: 2700 npm v/u: .270 φ: .0° 1: 298.1 \times

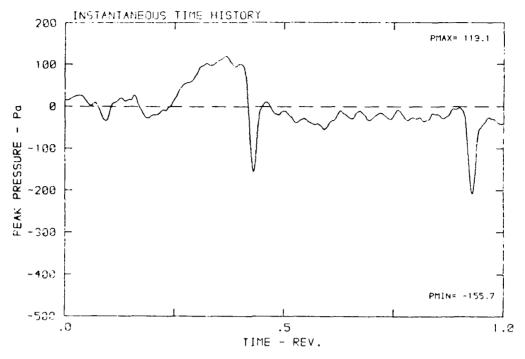


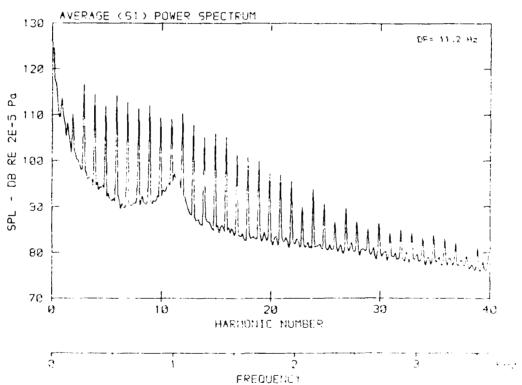
 $\beta\colon\,20.7^{\circ}\,$ MH: .8595 n: 2700 rpm v/u: .270 $\varphi\colon\,.0^{\circ}\,$ T: 298.1 K



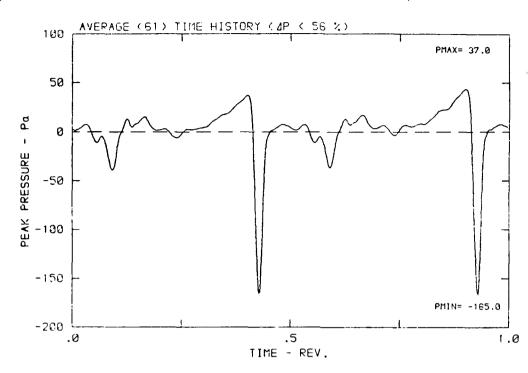


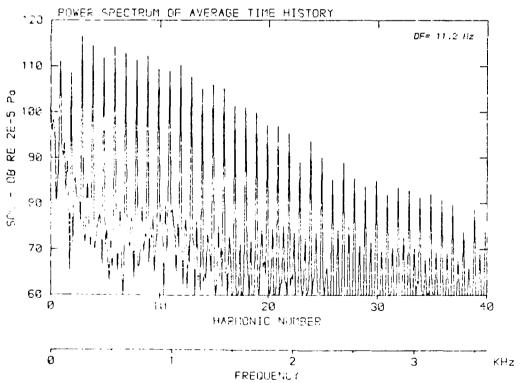
β: 20.7° NH: .8595 n: 2700 npm γ/u: .270 φ: .6° T: 233.1 a





 β : 20.7° MH: .8595 n: 2700 rpm v/u: .270 ϕ : .0° T: 298.1 K





6. Propeller Rotational Harmonic Noise- and Overall Noise Levels

From all spectra of averaged time-histories the harmonic pressure levels are determined under the presupposition of a 10 dB signal-to-noise ratio, and are submitted to the A-weighting function. Both linear and A-weighted harmonic levels as well as the respective overall pressure levels (calculated from the energy sum of harmonic levels) are listed in the following tables.

DNW PROPELLER NOISE TEST

MICROPHONE: MP 1 (PITCH ANGLE: 20.8 DEG)

		DATA-POINT / RUN									
+	+	 HN	-1 /	33	1	HN	-2 /	34	HN	-3 /	35 +
HN		F	SPL	SPLA	<u>.</u>	F	SPL	SPLA	F	SPL	SPLA
1	•	•	106.5	•	į	:	113.4	, ,		1112.4	93.3
2	•	•	100.8	87.4	ŀ	•	:		•	•	103.3
1 4	•	•	0.0	0.0	ļ		1110.1	101.5 103.9	•	109.8	101.2 106.5
1 5	•	*	0.0	0.0 0.0	1	•	•	: :	•	1111.3	108.3
1 6	•	:	0.0	:	ì	•	103.0	•	•	•	100.9
1 7	•	1	0.0		ì	•	•	•	•	•	100.5
/	. !	•	0.0		i	•	•	100.3	•		103.6
1 9	•	•	•		1		97.0	•	826.2	•	99.2
10	•	•	0.0	0.0		900.0	95.5	: :	•	•	102.1
111	•	:	0.0	0.0	i	990.0	95.5	•	1009.8	:	99.5
1 12	•		0.0	•	ì	1080.0	91.1		1101.6	•	98.2
13	•	1040.0	0.0	•	•	1170.0	86.9	•	1193.4	94.3	94.9 j
14	i.	1120.0	0.0	0.0	Ì	1260.0	88.9	89.5	1285.2	92.4	93.0
15	1	1200.0	0.0	0.0	Ì	1350.0	83.0	83.6	1377.0	87.4	88.0
16	- 1	1280.0	0.0	0.0	ļ	1440.0	76.6	77.6	1468.8	88.8	89.8
17		1360.0	0.0	0.0		1530.0	0.0	0.0	1560.6	89.9	90.9
18		1440.0	0.0	•	•	1620.0	0.0	•	1652.4	80.7	81.7
19		1520.0	0.0	•	•	1710.0	0.0	•	1744.2	0.0	0.0
20	-	1600.0	0.0			1800.0	0.0		1836.0	0.0	! :
21		1680.0	0.0		•	1890.0	0.0		1927.8	0.0	: :
22		1760.0	0.0		:	1980.0	0.0	•	2019.6	0.0	: :
23		1840.0	0.0		•	2070.0	0.0	•	2111.4	0.0	
24		1920.0	0.0			2160.0	0.0		2203.2	0.0	0.0
25		12000.0	0.0		•	2250.0	0.0	•	2295.0	0.0	0.0
26		2080.0	0.0	•	•	2340.0	0.0	•	2386.8	0.0	0.0
27		2160.0 2240.0	0.0 0.0		•	2430.0 2520.0	0.0 0.0	•	2478.6 2570.4	0.0 0.0	0.0 0.0
1 29		2320.0	0.0		•	2610.0	0.0		2662.2	0.0	0.0
30		2400.0	0.0		•	2700.0	0.0		12754.0	0.0	0.0
31		2480.0	0.0				0.0		2845.8	0.0	0.0
•		2560.0	,		•	2880.0	•		2937.6		
•		2640.0				2970.0			3029.4		
		2720.0				3060.0			3121.2		•
•		2800.0			1 1	3150.0			3213.0	•	
-		2880.0			Н	3240.0	0.0	0.0	3304.8	0.0	
		2960.0				3330.0			3396.6		0.0
									3488.4		0.0
									3580.2		
									3672.0		0.0
+++++++++											
OASPL 107.5 89.0 118.1 110.8								113.3			
++											

F - FREQUENCY HZ

SPL - SOUND PRESSURE LEVEL DB RE 2E-5 PA SPLA - A-WEIGHTED SOUND PRESSURE LEVEL DBA RE 2E-5 PA

MICROPHONE: MP 2 (PITCH ANGLE: 20.8 DEG)

		+								
		DATA-POINT / RUN								
		j								
		HN	-1 /	33	HN	-2 / 34 HN-3				35
+	HN	+ F	SPL	+ SPLA	++ F	+	+ SPLA	 F	+ SPL	+ SPLA
+	+	·	DIB	+	∤	+	+		+	+
J	1]	80.0	105.5	83.0	90.0	113.7	94.6	91.8	112.8	93.7
Ì	2	1	105.4	92.0	180.0	114.4	103.5	183.6	121.1	110.2
Ì	3	240.0	106.0	97.4	270.0	115.4	106.8	275.4	114.2	105.6
Ì	4	320.0	103.9	97.3	360.0	110.7	105.9	367.2	115.3	110.5
İ	5 į	400.0	101.9	97.1	450.0	114.3	111.1	459.0	116.8	113.6
İ	6	480.0	102.0	98.8	540.0	114.2	111.0	550.8	114.7	111.5
Ì	7	560.0	98.7	95.5	630.0	111.7	109.8	642.6	114.3	112.4
İ	8	640.0	95.2	93.3	720.0	109.7	108.9	734.4	112.4	111.6
i	9	720.0	91.8	91.0	810.0	110.2	109.4	826.2	114.2	113.4
i	10	800.0	91.5	90.7	900.0	109.8	109.8	918.0	112.8	112.8
i	11 j	880.0	90.0	89.2	990.0	106.6	106.6	1009.8	110.3	110.3
i	12 j	960.0	85.1	85.1	1080.0	104.5	104.5	1101.6	103.6	109.6
i	13	1040.0	84.0	84.0	1170.0	104.5	105.1	1193.4	1_J8.6	109.2
İ	14	1120.0	78.0	78.0	1260.0	103.5	104.1	1285.2	109.1	109.7
i	15	1200.0	78.2	78.8	1350.0	100.7	101.3	1377.0	105.3	105.9
İ	16 j	1280.0	75.1	75.7	1440.0	100.0	101.0	1468.8	105.5	106.5
i	17	1360.0	0.0	0.0	1530.0	98.3	99.3	1560.6	105.3	106.3
i	18	1440.0	0.0	0.0	1620.0	97.3	98.3	1652.4	102.6	103.6
i	19	1520.0	0.0	0.0	1710.0	94.9	95.9	1744.2	101.1	102.1
i	-	1600.0	0.0	0.0	1800.0	92.6	93.8	1836.0	98.8	100.0
į	21	1680.0	0.0	0.0	1890.0	91.7	•	1927.8	100.6	101.8
i		1760.0	0.0	0.0	1980.0	91.4	92.6	2019.6	98.3	99.5
i	23 İ	1840.0	0.0	0.0	2070.0	88.6	89.8	2111.4	96.2	97.4
i	24	1920.0	0.0	0.0	2160.0	87.2	88.4	2203.2	95.2	96.4
i	25	2000.0	0.0	0.0	2250.0	85.5	86.8	2295.0	95.4	96.7
i	26	2080.0	0.0	0.0	2340.0	84.6	85.9	2386.8	95.3	96.6
i	27	2160.0	0.0	0.0	2430.0	83.6	84.9	2478.6	92.3	93.6
i	28 j	2240.0	0.0	0.0	2520.0	82.3	83.6	2570.4	94.4	95.7
i	29	2320.0	0.0	0.0	2610.0	82.5	83.8	2662.2	93.3	94.6
i	30 j	2400.0	0.0	0.0	2700.0	79.7	81.0	2754.0	90.6	91.9
i	•	2480.0	0.0	0.0	2790.0	77.4	78.7	2845.8	88.9	90.1
į	•	2560.0	•		2880.0		•	2937.6	•	
i		2640.0	0.0		2970.0	75.2		3029.4	-	1
i		2720.0			3060.0	74.7		3121.2	:	: :
i		2800.0			3150.0	73.8	•	3213.0	•	
i		2880.0	0.0		3240.0	70.5	•	3304.8	•	:
i	-	2960.0	0.0		3330.0	0.0	:	3396.6	-	87.0
i	•	3040.0	0.0			•		3488.4		84.1
i		1	0.0					3580.2		
i		3200.0						3672.0		
÷		+			+	+	+	+	+	++
+								+		
-	0	ASPL	112.6	105.4		123.3	119.6		126.3	122.9
+					+	+	+	·+	+	++

- FREQUENCY HZ

SPL - SOUND PRESSURE LEVEL DB RE 2E-5 PA

SPLA - A-WEIGHTED SOUND PRESSURE LEVEL DBA RE 2E-5 PA

MICROPHONE: MP 3 (PITCH ANGLE: 20.8 DEG)

	DATA-POINT / RUN										
+	 HN	-1 /	33		HN	-2 /	34	 	HN	-3 / +	35 +
HN	F	SPL	SPLA		F	SPL	SPLA	 -	F	SPL	SPLA
1	80.0	108.2	85.7		90.0	115.4	96.3		91.8	115.8	96.7
•	160.0	106.5	93.1	! !	180.0	115.3	104.4		183.6	•	106.0
	1 240.0	106.1	97.5		270.0	1114.2	105.6		275.4		107.2
1 4	1 320.0	104.8	98.2	H	360.0	1115.7	110.9		367.2	1118.1	1113.3
5	400.0	105.1	100.3		450.0	1115.1	1111.9	l	459.0	1117.9	1114.7
6 7	480.0 560.0	99.6	99.2 96.4	1	540.0 630.0	113.2 112.6	110.0 110.7	l I	550.8 642.6	115.5 116.9	112.3 115.0
8	640.0	98.5	96.6		720.0	1112.0	1113.1		734.4	1117.1	1115.0
9	720.0	97.1	96.3	I I I I	810.0	1111.9	1111.1	1	826.2	1117.1	1114.7
1 10	720.0	93.4	92.6	1 1	900.0	111.1	1111.1	ŀ	918.0	115.1	1114.7
111	880.0	92.5	91.7		990.0	1110.9	1110.9		1009.8	•	114.4
12	960.0	90.8	90.8	i	1080.0	108.7	108.7		•	•	112.2
•	1040.0	87.3	•	i	1170.0	•			1193.4	•	113.5
•	11120.0	82.9			1260.0	•			•	•	112.8
•	11200.0	83.1	•	•	1350.0	:		•	•	•	109.8
•	1280.0	80.8	•		1440.0	•			•	•	110.0
17	1360.0	76.0	76.6	Ħ	1530.0	104.0	105.0		1560.6	109.5	110.5
18	11440.0	73.1	74.1	Ħ	1620.0	103.5	104.5		1652.4	108.2	109.2
19	1520.0	74.1	75.1	П	1710.0	99.7	[100.7		1744.2	104.6	105.6
20	1600.0	70.1	71.1	۱۱	1800.0	98.1	99.3		1836.0	105.1	106.3
21	1680.0	0.0	0.0	П	1890.0	98.4	99.6	į	1927.8	105.3	106.5
22	1760.0	0.0	•	11	1980.0	97.0	98.2		2019.6	103.3	104.5
•	1840.0	0.0	•		2070.0	94.5	95.7		2111.4	•	102.8
	1920.0	0.0	•		2160.0	94.7	95.9		2203.2		104.1
25	[[2000.0	0.0	0.0		2250.0	93.7	95.0		2295.0	•	102.1
•	2080.0	0.0			2340.0	89.6		į		•	101.1
	2160.0	0.0	0.0		2430.0	90.5			•	•	102.1
•	2240.0	0.0	0.0		2520.0	90.3	, ,	ļ		•	102.1
•	2320.0	0.0		: :	2610.0	88.2	:		2662.2	•	100.2
30	2400.0	0.0	0.0	•	2700.0	86.5	87.8		2754.0 2845.8	98.6	99.9 100.3
31	2480.0	0.0	0.0	: :	2790.0	86.8	88.1 87.6	1		99.1 98.5	
	2560.0 2640.0	-		: :	2880.0 2970.0	:	86.7			95.8	
	2040.0				3060.0	•	: :		3121.2	:	: :
	2720.0	:	:	: :		•			3213.0	•	
•	2880.0	•				•	•		3304.8	•	•
•	2960.0	•	•			•			3396.6		
•	3040.0	•	•			•	•		3488.4	•	
•	3120.0	•							3580.2		
•	3200.0	•							3672.0		
	++										
+		+	+	++			++	-1			
•		114.1	,	٠,		,	121.9				125.7
+		+	+	++		+	++	-4		·	++

F - FREQUENCY HZ

SPL - SOUND PRESSURE LEVEL DB RE 2E-5 PA SPLA - A-WEIGHTED SOUND PRESSURE LEVEL DBA RE 2E-5 PA

MICROPHONE: MP 4 (PITCH ANGLE: 20.8 DEG)

	DATA-POINT / RUN											
	İ					DATA-1	roini /	NC.N				
+	 ++	HN	-1 / +	33 +		HN	-2 / +	34 +	 +	HN	-3 / +	35 +
HN	<u> </u>	F	SPL	SPLA		F	SPL	SPI	A	F	SPL	SPLA
1	8	0.0	109.6	87.1	l	90.0	117.0	97.	9	91.8	117.5	98.4
2		0.0	106.5	93.1	П	•	•	102.	•	•	•	105.0
3		0.0	108.2	99.6	1	270.0	•	108.	,	•	•	110.9
4		0.0	107.0	100.4	П	•	•	110.		•	•	112.9
5		0.0	104.4	99.6		•	•	112.		459.0	•	114.7
6	• •	0.0	101.7	98.5		•	:	111.		550.8	•	113.9
7		0.0	101.2	98.0	П	•	•	112.	•	642.6	•	115.4
8	• •	0.0	99.3	97.4	Į,	720.0	•	112.		734.4	•	115.1
9	: :	0.0	96.2	95.4	H	810.0	112.9	112.	•	826.2	115.5	114.7
10		0.0	94.8	94.0	Ļ	900.0	112.4	112.	•	918.0	115.6	115.6
11		0.0	93.2	92.4	H	990.0	110.4	110.		1009.8	114.1	114.1
12		0.0	90.7	90.7	Ļ		111.1	111.		1101.6	115.3	115.3
13		0.0	89.0	89.0	!		•	109.		1193.4	1111.5	112.1
14	112		87.2	87.2	•	•	•	107.	•	•	•	112.5
15	120		83.0	83.6	•		,	107.	•	•	•	112.2
16	128		81.9	82.5	•	•	•	106.	•	•	•	1111.2
17	136		80.6	81.2	•	•	•	104.	•	•	•	109.4
18	144		78.3	:	: :		•	102.	,	•	•	109.2
19	152		72.3	:	•	•	•	103.			•	108.7
20	11160		70.7	•	•	1800.0	•	101.		:	:	106.3
21	168] 0.0	•		1890.0	97.1	98. 00	•	•	·	105.8
22	11176		0.0 0.0	0.0 0.0]	1980.0 2070.0	97.9	99. 97.		2019.6	•	105.2 103.3
1 23	11184		0.0	0.0	 	2160.0	95.9 93.0	97. 94.	•	2111.4 2203.2	102.1 102.0	103.3 103.2
1 24		0.0	0.0	1 0.0	1 I 1 I	2250.0	93.9	95.	•	2295.0	<u>:</u>	102.5
26	: :	0.0	0.0	0.0	: :	2340.0	91.9	93.		2386.8		101.9
27		0.0	0.0	0.0		2430.0	91.1	92.	•	2478.6	:	102.3
28		0.0	0.0	0.0	ii	2520.0	91.4	92.	•	2570.4	•	102.1
29		0.0	0.0	0.0	ii	2610.0	89.5	90.	•	2662.2	•	100.5
30		0.0	0.0	0.0	H	2700.0	87.5	88.	•	2754.0	•	100.7
31	1 1	0.0	0.0	0.0	ΪÌ	2790.0	88.4	89.		2845.8		100.3
•	256		•	•	iì	,	•	,	•	2937.6	•	98.3
•	264		-			2970.0				3029.4		: :
	272					3060.0	•	•	•	3121.2	•	: :
-	280		0.0			3150.0	84.0	•		3213.0	7	
-	1 288		0.0			3240.0	81.7			3304.8		96.6
•	296		0.0	•		3330.0	81.3			3396.6		
•	304		0.0	1			80.2	:		3488.4	:	: :
			0.0	•			79.1	•	•	3580.2	•	
	320						•	-		3672.0	•	
+			+	•			•	•		+		+
+			•							+		
	OASPI		115.2									126.0
+			+	+	+-1		+	 -	+	+	+	++

- FREQUENCY HZ

SPL - SOUND PRESSURE LEVEL DB RE 2E-5 PA SPLA - A-WEIGHTED SOUND PRESSURE LEVEL DBA RE 2E-5 PA

MICROPHONE: MP 5 (PITCH ANGLE: 20.8 DEG)

	+ 			DATA-	POINT /	RUN			
	HN-	-1 /	33		-2 /		HN	-3 /	35
HN	F	SPL	SPLA	F	SPL	SPLA	F	SPL	SPLA
1 1	80.0	110.5	88.0	90.0	1118.4	99.3	91.8	119.0	99.9
2	160.0	105.9		180.0	•		183.6	116.7	105.8
3	:	104.4		270.0	*	108.5	275.4	118.5	109.9
4	:	107.9		360.0	•	112.3	367.2	119.7	114.9
5	:	102.1	97.3	450.0	•	107.2	459.0	112.2	109.0
6	480.0	98.0	94.8	540.0	114.0	110.8	550.8	117.0	113.8
7	560.0	99.9	96.7	630.0	113.8	111.9	642.6	116.7	114.8
8	640.0	98.4	96.5	720.0	111.0	110.2	734.4	113.2	112.4
9	720.0	92.7	91.9	810.0	109.7	108.9	826.2	113.6	112.8
10	800.0	91.9	91.1	900.0	110.2	110.2	918.0	113.4	113.4
11	880.0	88.8	88.0	990.0	•	•	1009.8	113.4	113.4
12	960.0	88.7	88.7	1080.0	•	•	1101.6	108.3	108.3
13	1040.0	85.2	85.2	11170.0	107.0	•	1193.4	1111.9	112.5
	1120.0	80.9	•	1260.0	•	•	11285.2	•	110.6
15	1200.0	81.9	•	1350.0	•	•	11377.0	•	106.0
	1280.0	78.8	•	1440.0	•	•		•	109.3
	1360.0	75.8	•	1530.0	99.4	•	1560.6	•	106.9
	11440.0	0.0	•	1620.0	98.8	•	11652.4	-	1103.6
	1520.0	0.0	•	11710.0	99.0	•	1744.2	104.2	105.2
	11600.0	0.0		1800.0	95.0	:	1836.0	101.9	103.1
	11680.0	0.0		11890.0	94.7		11927.8	101.1	1102.3
	11760.0	0.0	•	1980.0	94.8	96.0 92.4			102.2 100.5
: :	1840.0	0.0		2070.0 2160.0	91.2	•	2111.4 2203.2	97.4	98.6
24	1920.0 2000.0	0.0	•	2250.0	89.5	•	2295.0	97.4	98.7
	2080.0	0.0		2340.0	86.2		2386.8	96.2	97.5
. ,	2160.0	0.0	•	2430.0	88.4		2478.6	95.2	96.5
	12240.0	0.0	•	2520.0	83.5		2570.4	91.8	93.1
	2320.0	0.0	•	2610.0	83.3		2662.2	95.5	96.8
	2400.0	0.0		2700.0	85.3		2754.0	92.4	93.7
•	2480.0	0.0		12790.0	79.8		12845.8	90.5	91.7
1 1	2560.0		: :	2880.0	!		2937.6	94.3	: :
: :	2640.0	0.0	•	2970.0	•	-	3029.4		
	2720.0	0.0		•	•		3121.2		91.9
	2800.0	0.0	: :	•	•	•	3213.0	•	92.3
	2880.0	0.0	:				3304.8	:	88.0
	2960.0	•	:	•	•		3396.6	•	
	3040.0	0.0					3488.4	:	88.0
	3120.0		•	•	,	•	3580.2	•	
40	3200.0	0.0	0.0	3600.0	70.7	71.7	3672.0	87.2	88.2
							- +		
			106.3			120.8	-+ :		++ 124.1
				•			 		

⁻ FREQUENCY HZ

SPL - SOUND PRESSURE LEVEL DB RE 2E-5 PA SPLA - A-WEIGHTED SOUND PRESSURE LEVEL DBA RE 2E-5 PA

MICROPHONE: MP 6 (PITCH ANGLE: 20.8 DEG)

	DATA-POINT / RUN										
	. 4	l HN	-1 /	33	1	HN	-2 /	34	HN	-3 /	35
HN		F	SPL	SPLA	<u> </u>	F	SPL	SPLA	F	SPL	SPLA
1	į	•	110.2	87.7	į	90.0	118.6	99.5	91.8	92.4	73.3
2		•	103.7	90.3	ŀ	•	•	106.7	183.6	92.0	81.1
3	1		96.6	88.0	ļ	270.0	•	108.7	275.4	91.1	82.5
4	1	320.0	103.2	96.6	ļ	360.0	:	108.4	367.2	88.9	84.1
5 6	1	400.0	97.7 94.1	92.9	į	450.0	106.8	1103.6	459.0	85.0	81.8 85.2
1 7	1	480.0 560.0	•	90.9	1	540.0	111.1 107.5	107.9 105.6	550.8	88.4	85.2
/	H	560.0 640.0	96.7 90.0	93.5	ļ	630.0 720.0	100.4	103.6 99.6	734.4	83.9 80.3	82.0 79.5
9	1	720.0	1 77.7	76.9	1	810.0	•	106.2	826.2	82.5	81.7
10	i	800.0	0.0	0.0	!	900.0	•	100.2	918.0	77.8	77.8
111	1	880.0	0.0	0.0	:	990.0	97.1	,	1009.8	71.4	71.4
12	i	960.0	0.0	•	; 	1080.0	100.5		1101.6	76.6	76.6
13	i	1040.0	0.0	•	•	1170.0	95.8		1193.4	73.4	74.0
14	•	1120.0	0.0	•	•	1260.0	93.0		1285.2	61.6	62.2
15	•	1200.0	0.0	•	•	1350.0	92.6		1377.0	61.1	61.7
•		1280.0	0.0	•	•	1440.0	90.9		1468.8	0.0	0.0
•	•	1360.0	0.0	•	•	1530.0	88.1		1560.6	0.0	0.0 i
18		1440.0	0.0	•	•	1620.0	75.3	1 :	1652.4	0.0	0.0
19		1520.0	0.0	0.0	•	1710.0	89.1	:	1744.2	j 0.0	0.0
20	Ш	1600.0	0.0	0.0	İ	1800.0	78.0	79.2	1836.0	0.0	0.0
21	Ü	1680.0	0.0	0.0	İ	1890.0	77.9	79.1	1927.8	0.0	0.0
22		1760.0	0.0	0.0		1980.0	79.7	80.9	2019.6	0.0	0.0
23	$\ \cdot\ $	1840.0	0.0	0.0		2070.0	75.3	76.5	2111.4	0.0	0.0
24	$\ \cdot\ $	1920.0	0.0	0.0		2160.0	71.5	72.7	2203.2	0.0	0.0
25		2000.0	0.0	0.0		2250.0	0.0	0.0	2295.0	0.0	0.0
26	11	2080.0	0.0	•	•	2340.0	0.0	0.0	2386.8	0.0	0.0
	: :	2160.0	0.0	•		2430.0	0.0	: :	2478.6	0.0	0.0
•		2240.0	0.0	='		2520.0	0.0		2570.4	0.0	0.0
		2320.0	0.0	:	•	2610.0	0.0	:	2662.2	0.0	0.0
30		2400.0	0.0	0.0		2700.0	0.0		2754.0	0.0	0.0
31		2480.0	0.0	0.0	: :	2790.0	0.0		2845.8	0.0	0.0
		2560.0		_	•	2880.0	0.0		2937.6		
•		2640.0	0.0		•	2970.0	0.0	: :	3029.4		:
•		2720.0	•			3060.0	0.0		3121.2		
•		2800.0			•	3150.0	0.0		3213.0		0.0
•		2880.0 2960. 0	•			3240.0	0.0		3304.8 3396.6	:	0.0
•		3040.0	•	•		3330.0 3420.0	•		3488.4	•	0.0
•		3120.0	•				•		3580.2		
•		3200.0		•					3672.0		
									+		
									· +		
1 4	O.A	SPL	112.2	101.1			[123.8]	116.2		98.5	92.1
+			+	·	Н		h	++	+	+ 	+

F - FREQUENCY HZ

SPL - SOUND PRESSURE LEVEL DB RE 2E-5 PA

MICROPHONE: MP 7 (PITCH ANGLE: 20.8 DEG)

		+			 - ለጥለ -	POINT /	DIIN			+ 1
					DAIA	IOINI /	KON			ĺ
+	+	HN:	-1 / +	33 +	HN:	-2 / +	34 +	HN	-3 / +	35 +
	HN	F	SPL	SPLA	F	SPL	SPLA	, F	SPL	SPLA
1	1	80.0	101.3	78.8	90.0	114.7	95.6	91.8	117.0	97.9
1	2	160.0	0.0	0.0	180.0	0.0	0.0	183.6	0.0	0.0
1	3	240.0	0.0	0.0	270.0	0.0	0.0	275.4	0.0	0.0
1	4	320.0	0.0	0.0	360.0	0.0	0.0	367.2	0.0	0.0
İ	5	400.0	0.0	0.0	450.0	0.0	0.0	459.0	0.0	0.0
	6	480.0	0.0	0.0	540.0	0.0	0.0	550.8	0.0	0.0
1	7	560.0	0.0	0.0	630.0	0.0	0.0	642.6	0.0	0.0
1	8	640.0	0.0	0.0	720.0	0.0	0.0	734.4	0.0	0.0
1	9	720.0	0.0	0.0	810.0	0.0	0.0	826.2	0.0	0.0
- :	10	800.0	0.0	0.0	900.0	0.0	0.0	918.0	0.0	0.0
•	11	880.0	0.0	0.0	990.0	0.0		1009.8	0.0	0.0
•	12	960.0	0.0	•	1080.0	0.0		1101.6	0.0	0.0
- :		1040.0	0.0	•	1170.0	0.0		1193.4	0.0	0.0
:	,	1120.0	0.0	•	1260.0	0.0	•	1285.2	0.0	0.0
•		1200.0	0.0	•	1350.0	0.0	•	1377.0	0.0	0.0
•		1280.0	0.0	•	1440.0	0.0	•	1468.8	0.0	0.0
		1360.0	0.0	•	1530.0	0.0		1560.6	0.0	0.0
•		1440.0	0.0	•	11620.0	0.0	•	11652.4	0.0	0.0
•		1520.0	0.0		1710.0	0.0	•	11744.2	0.0	0.0
		1600.0	0.0	Ī	1800.0	0.0		1836.0	0.0	0.0
•		11680.0	0.0		11890.0	0.0		1927.8	0.0	0.0
•		1760.0	0.0		11980.0	0.0	:	[2019.6	0.0	0.0
		1840.0 1920.0	0.0	•	2070.0	0.0	0.0	2111.4	0.0	0.0
•	24 25	2000.0	0.0		2160.0	0.0	0.0	2203.2	0.0	0.0
•		2080.0	0.0		2250.0 2340.0	0.0 0.0		2295.0 2386.8	0.0 0.0	0.0
•	•	2160.0	0.0	•	12430.0	0.0		2478.6	0.0	0.0
•	,	2240.0	0.0		2430.0	0.0		2570.4	0.0	0.0
•	•	2320.0	0.0	•	[[2520.0 [[2610.0]	0.0		2662.2	0.0	0.0
•		2400.0	0.0	-	2010.0 2700.0	0.0		2754.0	0.0	0.0 (
•		2480.0	0.0		2790.0	0.0	. ,	2845.8	0.0	0.0
•		2560.0			2880.0	0.0		2937.6	:	:
		2640.0			2970.0	0.0		3029.4		
•		2720.0			3060.0	0.0		3121.2		
•		2800.0		:	3150.0	0.0		3213.0		;
	- :	2880.0			3240.0	0.0	:	3304.8	_	
,		2960.0			3330.0	0.0		3396.6		
		3040.0			3420.0	0.0	:	3488.4	: :	
					3510.0			3580.2		
1 4	40	3200.0	0.0	0.0	3600.0	0.0	0.0	3672.0	0.0	0.0
					- + - +					
Ţ	0.	ASPL	101.3	78.8	1	114.7	95.6	1	117.0	97.9
+					-+	- -		+	+	+ -

F - FREQUENCY HZ

SPL - SOUND PRESSURE LEVEL DB RE 2E-5 PA

MICROPHONE: MP 9 (PITCH ANGLE: 20.8 DEG)

	!	*		-	DATA-1	POINT /	RUN			+ !
	 HN	-1 /	33	1	HN-	-2 /	34 [HN	-3 /	35
HN	F	SPL	SPLA	<u>.</u>	, F	SPL	SPLA	F	SPL	SPLA
1	80.0	39.5	17.0	į	•	36.5	, ,	91.8	:	17.0
2	160.0	0.0	0.0	ļ	180.0	0.0	0.0	:	0.0	0.0
3	[240.0	0.0	0.0	ļ	270.0	0.0	: :	275.4	:	0.0
4	320.0	0.0	0.0	!	360.0	0.0	0.0	367.2	-	0.0
5	400.0	0.0	0.0	!	450.0	0.0	0.0	459.0	0.0	0.0
6	480.0	0.0	0.0	į	540.0	0.0	0.0	550.8	1	0.0
7	560.0	0.0	0.0	ļ	630.0	0.0	0.0	642.6	0.0	0.0
8	640.0	0.0	0.0	1	720.0	0.0	0.0	734.4	0.0	0.0
9 10	720.0 800.0	0.0	0.0 0.0	1	810.0 900.0	0.0 0.0	0.0 0.0	826.2 918.0	0.0	0.0
1 11	880.0	0.0	0.0	1	990.0	0.0		1009.8	0.0	0.0 0.0
1 12	960.0	0.0	0.0	ŀ	1080.0	0.0	•	1101.6	0.0	0.0
12	11040.0	0.0	0.0	•	1170.0	0.0	• .	1193.4	0.0	:
14	1120.0	0.0	0.0	•	1260.0	0.0	•	1285.2	0.0	0.0
15	11200.0	0.0	0.0	•	1350.0	0.0	•	1377.0	0.0	0.0
16	11280.0	0.0	0.0	•	1440.0	0.0		1468.8	0.0	0.0
17	1360.0	0.0	0.0	•	1530.0	0.0	•	1560.6	0.0	0.0
18	11440.0	0.0	0.0	•	1620.0	0.0		1652.4	0.0	0.0
19	1 1520.0	0.0	0.0	•	1710.0	0.0		1744.2	0.0	0.0
20	1600.0	0.0	0.0		1800.0	0.0		1836.0	0.0	0.0
21	11680.0	0.0	0.0	•	1890.0	0.0		1927.8	0.0	0.0
j 22	11760.0	0.0	0.0	•	1980.0	0.0	•	2019.6	0.0	0.0
23	1840.0	0.0	0.0	i	2070.0	0.0	: :	2111.4	0.0	0.0
24	11920.0	0.0	0.0	İ	2160.0	0.0	0.0	2203.2	0.0	0.0
25	[[2000.0	0.0	0.0	1	2250.0	0.0	0.0	2295.0	0.0	0.0
26	2080.0	0.0	0.0		2340.0	0.0	0.0	2386.8	0.0	0.0
27	2160.0	0.0	0.0		2430.0	0.0	0.0	2478.6	0.0	0.0
28	2240.0	0.0	0.0		2520.0	0.0	0.0	2570.4	0.0	0.0
29	2320.0	0.0	0.0	i	2610.0	0.0		2662.2	0.0	0.0
30	2400.0	0.0	0.0		2700.0	0.0		2754.0	0.0	0.0
31	2480.0	0.0	0.0		2790.0	0.0		2845.8	0.0	0.0
	2560.0		•		2880.0			2937.6	0.0	,
•	2640.0	:	•		2970.0			3029.4		0.0
•	2720.0		•		3060.0			3121.2		0.0
•	2800.0	•	-		3150.0			3213.0		0.0
36	2880.0				3240.0			3304.8		0.0
•	2960.0				3330.0			3396.6		0.0
•	3040.0				3420.0			3488.4		0.0
•	3120.0	•						3580.2		0.0
•	3200.0	•	•					3672.0 +		•
+		•	•					+		
İ	OASPL	39.5	17.0			36.5	17.4		36.1	17.0

F - FREQUENCY HZ

SPL - SOUND PRESSURE LEVEL DB RE 2E-5 PA

SPLA - A-WEIGHTED SOUND PRESSURE LEVEL DBA RE 2E-5 PA

MICROPHONE: MP 1 (PITCH ANGLE: 19.9 DEG)

	DATA-POINT / RUN									
4 -	 IN-	-1 /	36	1	IN	-2 /	37	IN	-3 /	38
HN	F	SPL	SPLA	-	•	SPL	SPLA	F	SPL	SPLA
1 1	•	101.8	75.6	İ	•	102.6			110.7	91.6
2	•	96.7	80.6	ļ	:	107.4	, ,	•	114.2	103.3
3	210.0	93.9	83.0	1	•	102.6	•	-	108.1	99.5
4	280.0	89.4	80.8	!	320.0	98.2	91.6	•	109.2	104.4
5	350.0	85.8	79.2	ļ	400.0	96.7	91.9	•	105.2	102.0
6	420.0	79.4	74.6	ļ	480.0	92.4	89.2	•	•	100.3
7	490.0	72.6	69.4	ļ	560.0	86.7	83.5	•	•	100.3
8	560.0	64.2	61.0	ļ	640.0	80.3	78.4	•	•	101.1
9 1		0.0	0.0	1	720.0	82.1	81.3	810.0	98.4	97.6
10		0.0	•	1	800.0	74.1	73.3		97.9	97.9
11	770.0	0.0	•	ł	880.0	65.1	64.3	990.0	94.9	94.9
12	840.0	0.0	•	ŀ	960.0	71.8		1080.0	90.9	90.9
13	•	0.0	•		1040.0 1120.0	65.5		1170.0 1260.0	88.7	89.3 89.1
•	•	0.0	•		1200.0	58.8	•	1350.0	88.5 85.5	86.1
•	1050.0 1120.0	0.0	•		1280.0	56.9	•	1440.0	82.1	83.1
	1120.0	0.0 0.0	0.0		1260.0	0.0 0.0		1530.0	0.0	0.0
	1260.0	0.0	0.0		1440.0	0.0		1620.0	0.0	0.0
•	1330.0	0.0	0.0		1520.0	0.0		1710.0	0.0	0.0
	1400.0	0.0	•	:	1600.0	0.0		1800.0	0.0	0.0
, ,	1470.0	0.0			1680.0	0.0		1890.0	0.0	0.0
	1540.0	0.0	•	•	1760.0	0.0		1980.0	0.0	0.0
	1610.0	0.0	•	•	1840.0	0.0		2070.0	0.0	0.0
	1680.0	0.0	•	•	1920.0	0.0		2160.0	0.0	0.0
	1750.0	0.0	•	•	2000.0	0.0		2250.0	0.0	0.0
	1820.0	0.0	- *		2080.0	0.0		2340.0	0.0	0.0
•	1890.0	0.0	-	•	2160.0	0.0		2430.0	0.0	0.0
•	1960.0	0.0		•	2240.0	0.0		2520.0	0.0	0.0
	2030.0	0.0	0.0	•	2320.0	0.0		2610.0	0.0	0.0
	2100.0	0.0	0.0	•	2400.0	0.0		2700.0	0.0	0.0
•	2170.0	0.0	0.0	•	2480.0	0.0		2790.0	0.0	0.0
32	2240.0	0.0	0.0	İ	2560.0	0.0	0.0	2880.0	0.0	0.0
• .	2310.0				2640.0			2970.0		
34	2380.0				2720.0			3060.0	0.0	0.0
	2450.0		0.0		2800.0	0.0	0.0	3150.0	0.0	0.0
36	2520.0	0.0	0.0		2880.0	0.0	0.0	3240.0	0.0	0.0
	2590.0			11	2960.0	0.0	0.0	3330.0	0.0	0.0
	2660.0				3040.0			3420.0		0.0
	2730.0							3510.0		0.0
	2800.0							3600.0		
++-								+ +		
	ASPL	103.8	87.7		[110.2	99.7		118.0	111.1

F - FREQUENCY HZ

SPL - SOUND PRESSURE LEVEL DB RE 2E-5 PA

MICROPHONE: MP 2 (PITCH ANGLE: 19.9 DEG)

		DATA-POINT / RUN										
+	+	I IN	-1 /	36		l IN	-2 /	37		IN	-3 / +	38 +
HI	N İ	F	SPL	SPLA	 -	F	SPL	SPLA		F	SPL	SPLA
•	1	•	105.4	79.2	Ì	•	107.6	85.1	ļ	•	113.8	94.7
	2	•	103.2	87.1	ļ	160.0	108.9	95.5	١	180.0	•	102.1
:	3	210.0	97.4	86.5	ļ	240.0	106.5	97.9	ļ	270.0	•	106.1
	4	280.0	94.4	85.8	ļ	320.0	104.6	98.0			1111.2	106.4
•	5	350.0	87.9	81.3	ļ	400.0	101.8	97.0	1	•	114.3	111.1
1	5	420.0	84.8	80.0	!	480.0	101.4	98.2	ļ	•	•	111.0
	7	490.0	81.3	78.1	Ľ	560.0	97.2	94.0	ļ	•	•	1109.4
•	8	560.0	74.8	•			93.8	91.9			•	109.0 109.6
1 10	9 0		69.2 66.1		l		90.4 91.8		1		•	109.6
1 1	•	:	65.1	64.3	1	880.0	88.0	87.2	1		•	106.3
		:	54.1	53.3	 	960.0	84.4		ļ		•	100.5
1	•	910.0	0.0	0.0		1040.0	80.4	•			•	104.8
114	•	980.0	0.0	0.0	l	1120.0	78.5		•		103.7	104.3
1	•	1050.0	0.0	0.0	i	1200.0	76.1		•	1350.0	100.9	101.5
1 10	•	1120.0	0.0	0.0	i	1280.0	72.2	72.8		1440.0	99.8	100.8
1		1190.0	0.0	•	•	1360.0	68.6		•	1530.0	98.4	99.4
11		1260.0	0.0	•	•	1440.0	63.4			1620.0	96.8	j 97.8 j
j 19		1330.0	0.0	0.0	İ	1520.0	63.4			1710.0	94.5	95.5
20	ρj	1400.0	0.0	0.0	ij	1600.0	59.9	60.9	İ	1800.0	92.0	93.2
2	1	1470.0	0.0	0.0	۱	1680.0	0.0	0.0	ĺ	1890.0	91.7	92.9
22	2	1540.0	0.0	0.0	H	1760.0	0.0	0.0	ĺ	1980.0	91.2	92.4
2:	3	1610.0	0.0	0.0	П	1840.0	0.0	0.0		2070.0	88.6	89.8
24	4	1680.0	0.0	0.0	П	1920.0	0.0	0.0		2160.0	86.3	87.5
25	5	1750.0	0.0	0.0	H	2000.0	0.0	0.0		2250.0	85.6	86.9
26		1820.0	0.0	•		2080.0	0.0		•	2340.0	84.7	86.0
27	•	1890.0	0.0			2160.0	0.0		1	2430.0	83.1	84.4
28	•	1960.0	0.0	0.0		2240.0	0.0	0.0	ļ	2520.0	81.8	83.1
29	•	2030.0	0.0	0.0	•	2320.0	0.0	0.0	ļ	2610.0	82.7	84.0
30		2100.0	0.0	•		2400.0 2480.0	0.0	0.0	ļ	2700.0	79.8	81.1
3:	•	2170.0	0.0	0.0		ll control of the con	0.0	0.0		2790.0	75.8	77.1
		2240.0 2310.0				2560.0 2640.0				2880.0 2970.0		
•	•	2380.0		:		2720.0		:		3060.0		
•	•	2450.0		:	: :	2800.0	:		•	3150.0		: - :
		2520.0			: :	2880.0	0.0	:	- 5	3240.0		
•	•	2590.0				2960.0			•	3330.0		
		2660.0			: :	3040.0		:	- 3	3420.0		: :
•		2730.0				3120.0			-	3510.0	•	•
•	•	2800.0	•	•		3200.0				3600.0		
												-
+				+	Н				+		·	++
1												119.5
+			h	+	Н		h	·+	+		·	++

F - FREQUENCY HZ
SPL - SOUND PRESSURE LEVEL DB RE 2E-5 PA
SPLA - A-WEIGHTED SOUND PRESSURE LEVEL DBA RE 2E-5 PA

MICROPHONE: MP 3 (PITCH ANGLE: 19.9 DEG)

		DATA-POINT / RUN									
+	+	 IN	-1 /	36 +	1	-	-2 /	37	IN	-3 /	38 +
H	N	F	SPL	SPLA	-		SPL	SPLA	F	SPL	SPLA
į	1	•	107.0	80.8	ļ	•	111.9	: •		114.7	95.6
ļ	2	•	104.3	•	ļ		109.4				103.9
ļ	3	:	99.1	•	ļ	:	108.5	99.9	•	114.1	105.5
	4 [280.0	94.4	85.8	ļ	1	105.9	99.3	•	115.7	110.9
•	5	350.0	91.4	84.8			106.6	101.8	450.0	1115.0	111.8
!	6	420.0	89.6	84.8	ļ	•	103.0	99.8	•	113.3	110.1
!	7	490.0	85.0	81.8	-	•	99.3	96.1		113.0	111.1
	8	560.0	79.5	76.3	!	•	97.7	95.8	ž.	•	113.0
•	9	630.0	77.3	75.4	ļ	•	96.2	95.4	•	•	1110.8
	0	700.0	73.5	71.6	ļ	,	91.9	91.1	•		1111.5
- 1	1	770.0	67.3	•	ļ	•	91.5	90.7		•	110.7
	2	,	0.0	•	ļ		89.4		•	•	108.5
•	3		0.0	•	•	1040.0 1120.0	86.9	•	•	•	107.7
	4 5	980.0 1050.0	0.0 0.0	•		1120.0	82.6 81.8	•	•	•	109.1 105.6
:	•	1120.0	0.0	•	•	1280.0	80.9		•	•	1104.5
:	7	1120.0	0.0	0.0	•	1360.0	75.2	•	1	:	104.3
:	•	1260.0	0.0	0.0	•	1440.0	73.7	: :	1620.0	•	104.4
:		1330.0	0.0	0.0	•	1520.0	70.3	:	1710.0		100.3
		1400.0	0.0	•		1600.0	68.3		1800.0	97.5	98.7
•		1470.0	0.0	•	•	1680.0	62.0		1890.0	98.1	99.3
•	•	1540.0	0.0			1760.0	60.2		1980.0	96.6	97.8
•		1610.0	0.0	•		1840.0	58.3		2070.0	93.8	95.0
•		1680.0	0.0	•	•	1920.0	59.1		2160.0	94.4	95.6
•	•	1750.0	0.0	•	•	2000.0	61.0		2250.0	93.1	94.4
	•	1820.0	0.0	:		2080.0	58.4		2340.0	89.3	90.6
1 2		1890.0	0.0	•	•	2160.0	50.2		2430.0	89.7	91.0
:		1960.0	0.0	•	•	2240.0	0.0		2520.0	89.7	91.0
1 2		2030.0	0.0			2320.0	0.0		2610.0	87.9	89.2
•	•	2100.0	0.0	0.0	•	2400.0	0.0		2700.0	85.9	87.2
3	•	2170.0	0.0	•	•	2480.0	0.0		2790.0	86.1	87.4
		2240.0				2560.0	0.0		2880.0	•	87.2
1		2310.0				2640.0			2970.0		
•		2380.0				2720.0			3060.0	•	•
•	-	2450.0	:			2800.0			3150.0	•	
		2520.0		0.0	1	2880.0	0.0		3240.0		
3	7	2590.0	0.0	0.0		2960.0	0.0	0.0	3330.0	81.4	82.6
3	8	2660.0	0.0	0.0		3040.0	0.0	0.0	3420.0	77.9	79.1
3	9	2730.0	0.0						3510.0		
		2800.0							3600.0		
									+ +		
+ 									+ 		
<u> </u>									! +		

F - FREQUENCY HZ

SPL - SOUND PRESSURE LEVEL DB RE 2E-5 PA

MICROPHONE: MP 4 (PITCH ANGLE: 19.9 DEG)

		DATA-POINT / RUN									
+	+	 IN	-1 /	36 +	1		-2 /		IN	-3 /	 38
1	HN	F	SPL	SPLA	<u> </u>	, F +	SPL			SPL	SPLA
į	1	-	108.9	82.7	İ	•	116.1	93.6	•	115.9	96.8
	2	:	105.3	89.2		160.0	110.4	97.0	180.0	•	102.2
1	3	210.0	99.2	88.3	ļ	240.0	110.8	102.2	270.0	•	107.9
ļ	4	280.0	98.1	89.5	ļ	•	108.2	101.6	360.0	114.9	110.1
!	5	350.0	93.9	87.3	ļ	•	105.6	100.8	450.0	•	111.8
-	6	420.0	89.3	84.5	!	•	103.1	99.9	•	•	111.4
-	7	490.0	84.7	81.5		560.0	102.4	99.2	•	•	112.1
	8 9	560.0 630.0	80.7 78.0	77.5 76.1	!	640.0 720.0	100.4 96.2	98.5 95.4	•	•	112.1 111.8
	:	700.0	73.8	71.9	i	800.0	95.4	93.4	•	•	111.8
•		770.0	72.2	71.4	i	880.0	92.6	91.8	•	•	1112.3
	:	840.0	67.4	66.6	;	960.0	90.0		•		110.2
•	:	910.0	58.0	58.0	i	1040.0	87.9		•	•	109.9
•	14	980.0	0.0	0.0	•	1120.0	86.6		1260.0	•	107.9
•		1050.0	0.0	0.0	•	1200.0	82.3	:	1350.0		107.3
:	16 j	1120.0	0.0	0.0	•	1280.0	78.8	79.4	1440.0	•	106.6
Ì:	17 j	1190.0	0.0	0.0	İ	1360.0	79.0	79.6	1530.0	103.4	104.4
1	18	1260.0	0.0	0.0	ĺ	1440.0	75.3	76.3	1620.0	101.8	102.8
	19	1330.0	0.0	0.0	1	1520.0	71.2	72.2	1710.0	102.2	103.2
1:		1400.0	0.0	0.0		1600.0	69.7	70.7	1800.0	99.8	101.0
:		1470.0	0.0		•	1680.0	67.9		1890.0	96.9	98.1
:	-	1540.0	0.0	•	•	1760.0	64.8	•	1980.0	97.7	98.9
		1610.0	0.0	•	•	1840.0	61.5	,	2070.0	95.6	96.8
•		1680.0	0.0		•	1920.0	62.5	: :	2160.0	92.8	94.0
	•	1750.0	0.0		•	2000.0	62.6	•	2250.0	93.5	94.8
		1820.0	0.0	0.0	•	2080.0	56.1	,	2340.0	91.7	93.0
•	:	11890.0	0.0	0.0	•	2160.0	0.0	. ,	2430.0	90.6	91.9
:	28	1960.0	0.0	0.0	•	2240.0	0.0		2520.0	91.2	92.5
•	29 30	2030.0 2100.0	0.0	0.0 0.0	•	2320.0 2400.0	0.0 0.0	0.0 0.0	2610.0 2700.0	89.0 87.3	90.3 88.6
•	30 31	:	0.0			2480.0	0.0	. ,	2790.0	88.0	89.3
•		2240.0	•			2560.0		•	2880.0	•	87.2
		2310.0				2640.0			2970.0		
•		2380.0			•	2720.0			3060.0		
•		2450.0				2800.0			3150.0		
		2520.0				2880.0			3240.0	•	
		2590.0				2960.0			3330.0	-	
•		2660.0							3420.0		
1:	39	2730.0	0.0						3510.0		
1 4	40	2800.0			•				3600.0		•
+	+	+	•				'		+	•	
+									+		
			111.1		•						
+					+-						++

F - FREQUENCY HZ

SPL - SOUND PRESSURE LEVEL DB RE 2E-5 PA

SPLA - A-WEIGHTED SOUND PRESSURE LEVEL DBA RE 2E-5 PA

MICROPHONE: MP 5 (PITCH ANGLE: 19.9 DEG)

	DATA-POINT / RUN										
.		IN	-1 /		I!	N-2 /	37	IN	-3 /	38	
HN		F	SPL	SPLA		SPL	SPLA	 F	SPL	SPLA	
1 1		70.0	109.7	83.5	80.0	117.4	94.9	90.0	116.9	97.8	
2		140.0	105.9	89.8	160.0	111.6	98.2	180.0	113.7	102.8	
3	1	210.0	97.2	86.3	240.0	108.6	100.0	270.0	116.0	107.4	
4		280.0	97.2	88.6	320.0	111.4	104.8	360.0	116.3	111.5	
5		350.0	92.9	86.3	400.0		101.4	450.0	110.0	106.8	
6		420.0	84.8	80.0	480.0	100.1	96.9	540.0	113.6	110.4	
7		490.0	81.3	78.1	560.0	101.8	98.6	630.0	113.2	111.3	
8		560.0	81.4	78.2	640.0	99.7	97.8	720.0	110.8	110.0	
9	1	630.0	76.7	74.8	720.0	94.1	93.3	810.0	109.2	108.4	
10		700.0	69.5	67.6	800.0	92.0	91.2	900.0	109.8	109.8	
11		770.0	66.6	65.8	880.0	90.3	89.5	•	109.2	109.2	
12		840.0	63.3	62.5	960.0	89.6	89.6		104.1	104.1	
13		910.0	0.0	•	1040.0	85.6	85.6		106.9	107.5	
•			0.0	0.0	1120.0	81.1	•		105.5	106.1	
•		1050.0	0.0	•	1200.0	81.2	•	•	101.1	101.7	
•		1120.0	0.0		1280.0	78.8		•	•	104.1	
•		1190.0	0.0		1360.0	73.4		1530.0	99.0	100.0	
•		1260.0	0.0	•	11440.0	71.4	•	1620.0	98.3	99.3	
:		1330.0	0.0		1520.0	69.7		1710.0	99.0	100.0	
:		1400.0	0.0	•	11600.0	65.5		1800.0	94.7	95.9	
		1470.0	0.0	0.0	1680.0	60.4		1890.0	94.4	95.6	
•		1540.0	0.0	0.0	1760.0	0.0	1	11980.0	94.7	95.9	
:		1610.0	0.0	0.0	1840.0	0.0	•	2070.0	90.5	91.7	
•		1680.0	0.0		1920.0	0.0		2160.0	91.5	92.7	
•		1750.0	0.0	:	12000.0	0.0	•	2250.0 2340.0	89.6 85.4	90.9	
•		1820.0	0.0		2080.0	0.0	•	2430.0	88.5	86.7 89.8	
		1890.0 1960.0	0.0	•	2160.0	0.0	•	2520.0	83.5	84.8	
•			0.0		2240.0	0.0	•	2610.0	82.4	83.7	
•		2030.0 2100.0	0.0 0.0	•	2320.0 2400.0	0.0	•	2700.0	85.7	87.0	
•		2170.0	0.0	•	2400.0	0.0		2700.0	80.2	81.5	
	: :	2240.0			2460.0	0.0	:		:	81.3	
-		2310.0			2640.0	0.0		2970.0	83.1	84.3	
•		2380.0			2720.0	0.0		3060.0		76.9	
•		2450.0			2800.0	0.0	•	3150.0	•	79.8	
	: :	2520.0			2880.0	0.0		3240.0			
•		2590.0			12960.0	0.0		3330.0	•	75.6	
•		2660.0			3040.0	•		3420.0		, .	
•		2730.0			3120.0	•	•	3510.0		73.0	
		2800.0						3600.0			
								+			
								+			
}	0.4	SPL	111.7	94.8	11	120.0	109.4	1	124.21	120.3	
								+	+	+	

F - FREQUENCY HZ

SPL - SOUND PRESSURE LEVEL DB RE 2E-5 PA

MICROPHONE: MP 6 (PITCH ANGLE: 19.9 DEG)

	DATA-POINT / RUN										
+	I IN	-1 /	36 +		IN	-2 /	37	IN	-3 /	38	
HN	F	SPL	SPLA	 -	F +	SPL	SPLA	F	SPL	SPLA	
1 1	70.0	83.9	57.7	İ	80.0	92.9	70.4	90.0	92.7	73.6 82.2	
•	140.0 210.0	78.2 67.9	62.1 57.0	1	160.0 240.0	87.1 85.1	73.7 76.5	180.0 270.0	93.1 91.5	82.9	
•	280.0	0.0	0.0	ŀ	320.0	83.1	70.3 77.3	360.0	89.5	84.7	
•	350.0	0.0	0.0		400.0	77.4	72.6	450.0	81.7	78.5	
•	1 420.0	0.0	0.0	i	480.0	68.4	65.2	540.0	86.6	83.4	
•	490.0	0.0	0.0	i	560.0	74.6	03.2 71.4	630.0	82.4	80.5	
	560.0	0.0	0.0	i		68.3	66.4	720.0	76.6	75.8	
: -	630.0	0.0	0.0	ŀ	720.0	56.4	55.6	810.0	82.4	81.6	
	700.0	0.0	0.0	i	800.0	62.9	62.1	900.0	78.1	78.1	
:	770.0	0.0	0.0	i	880.0	57.8	57.0	990.0	72.4	72.4	
	840.0	0.0	0.0	i	960.0	0.0		1080.0	76.4	76.4	
13	11 910.0	0.0	0.0	i	1040.0	0.0	0.0	1170.0	72.8	73.4	
14	980.0	0.0	0.0	i	1120.0	0.0	0.0	1260.0	68.4	69.0	
j 15	1050.0	0.0	0.0	i	1200.6	0.0	0.0	1350.0	68.8	69.4	
16	11120.0	0.0	0.0	i	1280.0	0.0	0.0	1440.0	67.2	68.2	
•	11190.0	0.0	0.0	•	1360.0	0.0	0.0 i	1530.0	64.4	65.4	
•	11260.0	j 0.0	0.0		1440.0	0.0	i 0.0 i	1620.0	52.5	53.5	
į 19	[1330.0	0.0	0.0	İ	1520.0	0.0	0.0	1710.0	0.0	0.0	
•	1400.0	0.0	-	•	1600.0	0.0	•	1800.0	0.0	j 0.0 j	
21	1470.0	0.0	0.0	Ĺ	1680.0	0.0	0.0	1890.0	0.0	0.0	
22	1540.0	0.0	0.0	Ĺ	1760.0	0.0	0.0	1980.0	0.0	0.0	
23	1610.0	0.0	0.0	İ	1840.0	0.0	0.0	2070.0	0.0	0.0	
24	1680.0	0.0	0.0	ĺ	1920.0	0.0	0.0	2160.0	0.0	0.0	
25	1750.0	0.0	0.0		2000.0	0.0	0.0	2250.0	0.0	0.0	
26	1820.0	0.0	0.0	-	2080.0	0.0	0.0	2340.0	0.0	0.0	
	1890.0	0.0	0.0	1	2160.0	0.0	0.0	2430.0	0.0	0.0	
•	1960.0	0.0	•	•	2240.0	0.0	0.0	2520.0	0.0	0.0	
•	2030.0	0.0	•	•	2320.0	0.0		2610.0	0.0	0.0	
•	2100.0	0.0			2400.0	0.0		2700.0	0.0	0.0	
•	2170.0	0.0		•	2480.0	0.0		2790.0	0.0	0.0	
-	2240.0				2560.0			[2880.0]			
•	2310.0			7	2640.0			2970.0		•	
	2380.0			-	2720.0			3060.0			
	1 2450.0							3150.0			
	2520.0							3240.0			
	2590.0							3330.0			
	2660.0										
•	2730.0							[3600.0]			
	2800.0 										
+								+			
	DASPL	85.0	64.4	ľ		95.0	82.4	İ	98.7	91.6	
+		+		+-			+	+		+	

F - FREQUENCY HZ SPL - SOUND PRESSURE LEVEL DB RE 2E-5 PA

MICROPHONE: MP 7 (PITCH ANGLE: 19.9 DEG)

		•	DATA-POINT / RUN										
+			 IN	-1 /	36	1	IN	-2 /		IN	1-3 /	38 	
	HN	j	, F	SPL	SPLA	 -	, F	SPL	SPLA		SPL	SPLA	
į	1	į		105.9	:	1		111.6	89.1	•	111.8	92.7	
!	2	ļ		0.0	:	ļ	•	0.0	0.0	180.0	0.0	0.0	
i	3	ļ	•	0.0	•		•	0.0	0.0	270.0	0.0	0.0	
- [4	ļ	<u>'</u>	0.0	•	!		0.0		360.0	0.0	0.0	
ŀ	5 6		•	0.0	•	ļ		0.0		450.0	0.0	0.0	
1	7	1	•	0.0	•	i	•	0.0		540.0	0.0	0.0	
1	8	1	490.0 560.0	0.0 0.0	:	!		0.0		630.0	0.0	0.0	
1	9	1	:	0.0	:	 		0.0 0.0	•	720.0	1 0.0	0.0 0.0	
i	10	i		0.0		ŀ	:	0.0	, ,	900.0	0.0	0.0	
i	11		:	0.0		ŀ		0.0	: : :	990.0	0.0	0.0	
i	12	i		0.0	0.0	i	960.0	0.0	, ,	1080.0	0.0	0.0	
Í	13	i	910.0	0.0	•	i	1040.0	0.0		1170.0	0.0	0.0	
i	14	i	980.0	0.0	_		1120.0	0.0	•	1260.0	0.0	0.0	
Ì	15	İ	1050.0	0.0	-		1200.0	0.0		1350.0	0.0	0.0	
ļ	16	l	1120.0	0.0	0.0		1280.0	0.0	0.0	1440.0	0.0	0.0	
1	17	•	1190.0	0.0	0.0		1360.0	0.0	0.0	1530.0	0.0	0.0	
١	18	,	1260.0	0.0	0.0		1440.0	0.0		1620.0	0.0	0.0	
- [19		1330.0	0.0	•		1520.0	0.0		1710.0	0.0	0.0	
-	20		1400.0	0.0	:	: :	1600.0	0.0		1800.0	0.0	0.0	
ļ	21		1470.0	0.0	•	: :	1680.0	0.0		1890.0	0.0	0.0	
1	22	•	1540.0	0.0	:		1760.0	0.0		1980.0	0.0	0.0	
- [23	•	1610.0		-	: :	1840.0	0.0		2070.0	0.0	0.0	
- [24		1680.0	0.0			1920.0	0.0		2160.0	0.0	0.0	
1	25 26	, ,	1750.0 1820.0	0.0	•		2000.0 2080.0	0.0		2250.0 2340.0	0.0	0.0	
1	27		1890.0	0.0			2160.0	0.0		2430.0	0.0	0.0	
1	28		1960.0	0.0		٠,	2240.0	0.0		2520.0	0.0	0.0	
i	29		2030.0	0.0		•	2320.0	0.0		2610.0	0.0	0.0	
į			2100.0	0.0	•		2400.0	0.0		2700.0	0.0	0.0	
i			2170.0	0.0	•		2480.0	0.0		2790.0	0.0	0.0	
Ì	32	П	2240.0	0.0	0.0	H	2560.0	0.0	0.0	2880.0	0.0	0.0	
	33	\mathbf{H}	2310.0				2640.0			2970.0			
1			2380.0				2720.0	0.0	0.0	3060.0			
1			2450.0			: :	2800.0	0.0		3150.0		0.0	
1		٠.	2520.0				2880.0	0.0		3240.0	: '	0.0	
1			2590.0				2960.0	0.0		3330.0		0.0	
			2660.0				3040.0	0.0		3420.0		0.0	
1										3510.0		0.0	
40 2800.0 0.0 0.0								•		3600.0	•	0.0	
+										+		•	
İ		OA	SPL	105.9	7 9.7			111.6	89.1		111.8	92.7	
÷										÷			

F - FREQUENCY HZ

AND A STRUCTURE DESIGNATION HEROSCOPIC POSSESSES BESSESSES BESSESSES DESCRIPTION OF SERVICES AND DESCRIPTION OF SE

SPL - SOUND PRESSURE LEVEL DB RE 2E-5 PA

SPLA - A-WEIGHTED SOUND PRESSURE LEVEL DBA RE 2E-5 PA

MICROPHONE: MP 9 (PITCH ANGLE: 19.9 DEG)

	-	DATA-POINT / RUN										
+		IN-	-1 /	36	1	IN	-2 /	37	IN	-3 /	38 	
HN	į	F +	SPL	SPLA		, F	SPL	SPLA	, F	SPL	SPLA	
1 1	į	70.0	42.0	15.8	ļ	80.0	34.4	: :	90.0	15.9	-3.2	
2	-	140.0	0.0	•	ļ	•	0.0	:	180.0	0.0	0.0	
3	ļ	210.0	0.0	•	ļ		0.0	:	270.0	0.0	0.0	
1 4	ł	280.0	0.0	•	ļ	!	0.0	:	360.0	0.0	0.0	
1 6	-	350.0 420.0	0.0	•	ļ	•	0.0	0.0	450.0	0.0	0.0 0.0	
1 7	i	420.0	0.0 0.0		[]	•	0.0 0.0	0.0 0.0	540.0	0.0 0.0	0.0	
8	1	560.0	0.0	7	ľ	•	0.0	: :	720.0	0.0	0.0	
9		630.0	0.0		ŀ	•	0.0	•	810.0	0.0	0.0	
10			0.0		i		0.0	: :	900.0	0.0	0.0	
111			0.0		i		0.0	: :	990.0	0.0	0.0	
1 12	i.		0.0		ì		0.0		1080.0	0.0	0.0	
13	i		0.0	•	•	1040.0	0.0		1170.0	0.0	0.0	
14	i		0.0	•	•	1120.0	0.0		1260.0	0.0	i o.o i	
15	i	1050.0	0.0	•		1200.0	0.0	•	1350.0	0.0	0.0	
16	İ	1120.0	0.0	0.0	İ	1280.0	0.0	0.0 j	1440.0	0.0	0.0	
17		1190.0	0.0	0.0	Ĺ	1360.0	0.0	0.0	1530.0	0.0	0.0	
18	1	1260.0	0.0	0.0		1440.0	0.0	0.0	1620.0	0.0	0.0	
19		1330.0	0.0	0.0	1	1520.0	0.0	0.0	1710.0	0.0	0.0	
20		1400.0	0.0	0.0	L	1600.0	0.0	0.0	[1800.0	0.0	0.0	
21		1470.0	0.0	•	•	1680.0	0.0		1890.0	0.0	0.0	
22		1540.0	0.0	•	•	1760.0	0.0		1980.0	0.0	0.0	
23		1610.0	0.0	•	•	1840.0	0.0		2070.0	0.0	0.0	
24		1680.0	0.0			1920.0	0.0		2160.0	0.0	0.0	
25		1750.0	0.0		:	2000.0	0.0		2250.0	0.0	0.0	
26		1820.0	0.0		•	2080.0	0.0		2340.0	0.0	0.0	
27	, ,	1890.0	0.0	•	•	2160.0	0.0	. ,	2430.0	0.0	0.0	
28		1960.0	0.0			2240.0	0.0		2520.0	0.0	0.0	
29	 	2030.0 2100.0	0.0	•	•	2320.0 2400.0	0.0		2610.0 2700.0	0.0 0.0	0.0	
1 31	11	2170.0	0.0		•	2480.0	0.0		2790.0	0.0	0.0	
1 -		2240.0				2560.0		, ,	2880.0			
-		2310.0				2640.0			2970.0			
		2380.0				2720.0		•	3060.0		•	
		2450.0				2800.0		•	3150.0			
•		2520.0			•	2880.0	-	:	3240.0		1	
		2590.0			•	•			3330.0		:	
									3420.0		•	
		2730.0			П	3120.0	0.0	0.0	3510.0	0.0	0.0	
		2800.0							3600.0			
+	++								+ +			
+ 	OA								+ 			
									+			

- FREQUENCY HZ

SPL - SOUND PRESSURE LEVEL DB RE 2E-5 PA SPLA - A-WEIGHTED SOUND PRESSURE LEVEL DBA RE 2E-5 PA

MICROPHONE: MP 1 (PITCH ANGLE: 20.8 DEG)

		-	 1				DATA-	POINT /	RUN				+ I
					• • •								į
+		+	JN:	-1 / :	188 +	 +-	JN	~2 / +	189 +				 ++
	HN	İ	F	SPL	SPLA	İ	F	SPL	SPLA		F	SPL	SPLA
1	1	1	80.0	104.1	81.6		90.0	110.1	91.0	11			
Ì	2	İ	160.0	101.2	i	İ.	•	106.8	95.9	П			İ
- [3	1	240.0	97.3	88.7		270.0	106.7	98.1				
-	4	1	320.0	93.5	86.9		360.0	103.7	98.9	Н	1		1
1	5		400.0	90.8	86.0	ľ	450.0	99.3	96.1	1			
-	6	į.	480.0	86.9	83.7		540.0	100.4	97.2				!
ļ	1	1	560.0	79.3	76.1		630.0	97.4	95.5				ļ
I			640.0	77.2	75.3	١	720.0	92.1	91.3				
-	9	1	720.0	75.7	74.9		810.0	91.8	91.0				
١	10	1	800.0	71.4	70.6		900.0	91.8	91.8				
	11	1	880.0	0.0	0.0		990.0	87.8	87.8			<u> </u>	
- 1	12	!	960.0	0.0	•	: :	1080.0	81.7	81.7			i	ļ
l I	13		1040.0	0.0	-	•	1170.0 1260.0	77.9	78.5			, ,	} !
1	14 15	•	1120.0 1200.0	0.0 0.0			1350.0	79.2 70.9	79.8 71.5	1			
1		•	1280.0	0.0			1440.0	69.5	70.5	 			1
1			1360.0	0.0		: :	1530.0	0.0	0.0	1			;
 			1440.0	0.0	:	: :	1620.0	0.0	·	ĺ		' '	i
1			1520.0	0.0		: :	1710.0	0.0		i	ļ	ì	ì
ί		•	1600.0	0.0		: :	1800.0	0.0		i	į	ľ	í
i			1680.0	0.0		: :	1890.0	0.0		i	ĺ	ĺ	i
i		1 1	1760.0	0.0		: :	1980.0	0.0	0.0	i	i	i	i
i			1840.0	0.0		: :	2070.0	0.0	0.0	į	į	j	i
į			1920.0	0.0		İ	2160.0	0.0	0.0	İ	ì	į	j
ļ	25	11	2000.0	0.0	0.0		2250.0	0.0	0.0	1	j	1	Ì
İ	26		2080.0	0.0			2340.0	0.0	0.0	1	1	1	
1	27		2160.0	0.0	0.0	۱	2430.0	0.0	0.0	1	1	1	1
1			2240.0	0.0	0.0		2520.0	0.0	0.0			1	
1			2320.0	0.0		: :	2610.0	0.0		1			
ļ			2400.0	0.0		: :	2700.0	0.0	•	!			!
-			2480.0	0.0			2790.0	0.0	0.0				ļ
1		1 1	2560.0				2880.0		:		j		1
			2640.0	0.0		: :	2970.0	0.0		:		ļ	ļ
ļ		1 1	2720.0	0.0			3060.0	0.0	0.0	•		İ	
1		: :	2800.0	0.0		: :	3150.0	0.0 0.0	0.0 0.0		l 1	[ļ I
1		: :	2880.0 2960.0				3240.0 3330.0			•	1	!	į. I
I			3040.0				3420.0			- :	}	! !	1
1			3120.0				3510.0				i	1	1
			3200.0				3600.0	•		:	i	i	ľ
+				+ 						+	+	+	+
+		 n 4			94.3				 105.7		+ 1	+	+
+											ا +	ا +	 +

F - FREQUENCY HZ

SPL - SOUND PRESSURE LEVEL DB RE 2E-5 PA

MICROPHONE: MP 2 (PITCH ANGLE: 20.8 DEG)

		+ !				 DATA-	POINT /	RUN				 !
+-		JN	-1 /		 ++	JN	-2 /			***	+	! ++
	HN	F	SPL	SPLA		F	SPL	SPLA	11	F	SPL	SPLA
İ	1		105.8	•	•		1110.9	•			!	
1	2		105.0 101.8	91.6	• :	80.0 70.0	118.2	107.3 99.4] [[[l L	! ! !
ì	4	: :	100.5	•	: :	60.0	•	105.6			f I	
i		400.0	98.9	94.1	: :	50.0	:	106.4	ì		! !	i
i		480.0	97.4	94.2		40.0	•	106.0	ij			i
i	-	560.0	94.9		: :		:	105.7	ii		j	i
i		640.0	90.7	Ĭ.	: :			102.8	ij			i
i	_	720.0	86.3	85.5	8	10.0	•	103.7	ij			İ
Ì	10	800.0	84.8	84.0	j	00.0	103.2	103.2	İİ			Ì
1	11	880.0	82.9	82.1	9	90.0	99.1	99.1	П			
1	12	960.0	77.8	•	10	80.0	99.0	99.0	11			
ļ		1040.0	76.5	•	: :	70.0	97.6	98.2	!!			ļ
:		11120.0	1	•		60.0	•	:	! !			
•		1200.0	:	•	: : .		94.5	95.1	!!			ļ
:		1280.0	0.0	:	: :	40.0		91.4	!!			Ì
•	-	1360.0 1440.0	0.0	:	: :	30.0		89.4 89.1	11			1
•	•	1520.0	0.0	:	: :	20.0 10.0	88.1 85.4	86.4	 		! 	
•		1600.0	0.0	•	• •	0.00	83.9	85.1	1 1 1 1			!
•		1680.0	0.0		: :	90.0	80.4	81.6				,
•		1760.0	0.0	:	: :	80.0	80.3	81.5	ij			i
•		1840.0		•		70.0	78.4		ij	,		j
		1920.0	0.0	•		60.0	72.8	74.0	İ	i		j
1.	25	2000.0	0.0	0.0	122	50.0	73.5	74.8	İ	i		İ
1.	26	2080.0	0.0	0.0	123	40.0	0.0	0.0	H		İ	1
1.	27	2160.0	0.0	0.0	24	30.0	0.0	0.0	П	ı		
•		2240.0	0.0		: :	20.0	0.0	0.0				
•		2320.0	0.0		26		0.0	0.0	!!			ļ
•		2400.0	0.0	0.0	: :	0.00	0.0	0.0				
•		2480.0	0.0	0.0		90.0	0.0	0.0				ļ
-		12560.0										1
•		2640.0 2720.0			1 1	70.0 50.0	1	:				1
		2800.0			• •	50.0	•	1				
		12880.0			: :	40.0		:	•	į	 	1
•	:	2960.0			• •	30.0	•		: :			ì
•	•	3040.0			: :	20.0	•					j
•		3120.0	•	•		10.0			i			j
•		3200.0	•			0.00	•	0.0	Ì	ł		į
+-	+	+			• •		+	+	+		+	+
+-			<u> </u>		• •		+	+	+			+ :
1	C		110.6	-			•	1115.0				ļ
+-					++		+	+	+			+

F - FREQUENCY HZ
SPL - SOUND PRESSURE LEVEL DB RE 2E-5 PA
SPLA - A-WEIGHTED SOUND PRESSURE LEVEL DBA RE 2E-5 PA

SAME ESSANDE CARACES DIVINION SININGS SACSISTA

MICROPHONE: MP 3 (PITCH ANGLE: 20.8 DEG)

		.			_						- 	
		1			_	DATA-1	POINT /	RUN				i
		<u> </u>				D	,					i
		JN-	-1 /	188	1	JN-	-2 /	189	١	l		i
+	+	+	+	+	+	+	+	+	+-	+	+ 	
1	HN	F	SPL	SPLA		F	SPL	SPLA		l F	SPL	SPLA
+	1 1	+	+ 106 2	+ 1 02 0	+	+	+ 111 0	+	+-	+ I	 1	+
1	1 2		106.3	83.8	ŀ	90.0	111.8	92.7 101.1	1	[! !	1
ł	3	:	105.2	91.8		-	:	1	1	! !	 	
ł	4	:	104.4 101.1	95.8 94.5		270.0 360.0	:	101.8 106.2	!	i i	 	
ł	5		101.1	97.1	l	450.0		100.2	1	1 [1	;
¦	6		98.2	95.0	i	540.0	:	104.9	i	(i
i	7	560.0	92.9	89.7	í	630.0		106.2	i	! 		i
	8	640.0	93.2	91.3	i	720.0	:	108.0	i	1 		i
i	9		91.4	90.6	i	810.0	:	105.6	!	İ		į
i	10	800.0	88.9	88.1	ì	900.0	:	105.7	i	<u> </u>		i
i	11	880.0	86.3	85.5	ì	990.0	:	105.2	i			į
i	12	960.0	83.1	83.1	i	1080.0	:	102.8	i			i
i	13	1040.0	81.2	81.2		1170.0	99.1	99.7	i	į		i
İ	14	1120.0	77.2	77.2	•	1260.0	100.6	101.2	İ			i
İ	15	1200.0	73.0	73.6	ĺ	1350.0	98.0	98.6	İ			İ
İ	16	1280.0	73.4	74.0	İ	1440.0	96.3	97.3	Ħ	ĺ		İ
1	17	1360.0	68.9	69.5	ĺ	1530.0	94.2	95.2				ĺ
	18	1440.0	64.9	65.9	1	1620.0	94.1	95.1				
-	19	1520.0	0.0	0.0		1710.0	92.5	93.5				į
1	20	1600.0	0.0	0.0	1	1800.0	88.1	89.3	l			1
-	-	1680.0	0.0	0.0		1890.0	87.1	88.3				1
-		1760.0	0.0	0.0		1980.0	87.3	88.5				1
ļ		1840.0	0.0	0.0	•	2070.0	85.0	86.2				ļ
ļ		1920.0	0.0	0.0	- 7	2160.0	81.4	82.6				j
ļ		2000.0	0.0	0.0	1	2250.0	81.4	82.7	IJ			ļ
ļ		2080.0	0.0	0.0	1	2340.0	79.9	81.2				1
ļ	27	2160.0	0.0	0.0	ŀ	2430.0	76.6	77.9] 			ļ
ļ	:	12240.0	0.0	0.0	-	2520.0	75.4	76.7				ļ
ļ		12320.0	0.0	0.0	1	2610.0	75.1	76.4 74.2	 			ļ
1	30	2400.0 2480.0	0.0 0.0	0.0	!	2700.0 2790.0	72.9 69.4	70.7	 		<u> </u>	ł
	:	2560.0	0.0	:	1	•	•	70.7	 		! 	- 1
i	-	2640.0	0.0		•	2970.0	67.7			! 		1
i		2720.0		•	•		66.6	1			 	1 1
i	,	2800.0		-		:	65.1				İ	ľ
i		2880.0				:	60.6				<u> </u>	i
j		2960.0	0.0		:]	62.3		j		i	i
i		3040.0	0.0			3420.0			Ιİ	İ	İ	i
İ		3120.0	0.0	0.0	ĺ	3510.0	0.0	-	H	İ	1	į
Ì		3200.0	0.0	0.0	ĺ	3600.0	0.0	-	Ц	ĺ	j	į
+	+	+			-	+	'	+	++	·	+	+
+			•			 		•				+
1	0.		111.6			•		116.7				1
+			+ - -		+-	+		+	+		+	+

- FREQUENCY HZ

SPL - SOUND PRESSURE LEVEL DB RE 2E-5 PA

MICROPHONE: MP 4 (PITCH ANGLE: 20.8 DEG)

		1				-	DATA-	POINT /	RUN	-			
+-		! 	JN	-1 /		!	•	-2 /		 			
:	HN		F	SPL	SPLA		F	SPL	SPLA		F	SPL	SPLA
İ	1			107.1	•	:	:	•	94.5				
	2			104.7	•	ļ		•	:	!!			
+		[104.4	95.8	ļ	•		103.7				
-	_			106.4 99.6	99.8		360.0 450.0	•	109.3 109.0				
-	_			97.6	94.4	!	:	•	105.7				
1				96.3	:	!	•	:	108.0	 		! !	! I
i		i		94.0	92.1	i	•	:	107.5	li			į
i	_	ii		91.0	90.2	i	810.0	Ī	107.3	i		i	i
i		ij		89.4	:	i	900.0	106.6		i			i
i	11	İ	880.0	87.6	86.8	İ	:	:	103.3	i		i	i
İ	12	Ĥ	960.0	83.7	83.7	Ì	1080.0	103.6	103.6	İ		į į	į
1	13	П	1040.0	82.0	82.0		1170.0	103.2	103.8				
	14	1	1120.0	80.9	80.9		1260.0	98.5	99.1				1
		: :	1200.0	77.5	•	:	1350.0	_	100.2				ļ
:		: :	1280.0	70.8	•	•	1440.0	98.1	99.1	ļ			
•			1360.0	0.0	•	•	1530.0	95.5	96.5	ļ			
:		: :	1440.0	0.0	:	:	1620.0	93.2	94.2	ļ			
•			1520.0	0.0	•	•	1710.0	92.4	93.4	1		1	}
•			1600.0 1680.0	0.0 0.0	•	•	1800.0 1890.0	90.7 89.0	91.9 90.2				[
•		: :	1760.0	0.0	:	-	1980.0	85.3	90.2 86.5	1		1 1	!
•			1840.0	0.0	•	:	2070.0	86.1	87.3	ł			1
•		: :	1920.0	0.0	•	•	2160.0	82.9		i			i
•		: :	2000.0	0.0		1	2250.0	81.2	82.5	i		i	ì
•		: :	2080.0	0.0	!	:	2340.0	81.0		i	i	i	i
j :			2160.0	0.0	:	:	2430.0	78.5	79.8	İ	Ì	į	į
1:	28	11	2240.0	0.0	0.0	Ĺ	2520.0	77.8	79.1	İ	ĺ		ĺ
1:	29		2320.0	0.0	0.0	1	2610.0	76.6	77.9	١	l	1	
•			2400.0	0.0	0.0		2700.0	74.4	75.7	-		ļ	1
•	,		2480.0	0.0	•	•	2790.0	71.6	72.9	ļ		!	į
•			2560.0				2880.0				į	!	!
•			2640.0			7	2970.0	•		•	[ļ	ļ
•	,		2720.0			:	3060.0				ļ	į	!
•			2800.0 2880.0				3150.0 3240.0			- :	l i	ļ t	l t
•			2960.0			•	3330.0	•		:	!	} 	i i
			3040.0		•		3420.0	-	: :	- :	İ	1	i F
•	,		3120.0				3510.0	•	, ,	:	j	i	i
•	•		3200.0		•		3600.0	•	•	•	Ì	i	i
•		٠.			•		, +	-	++	÷			+
+					•	•	+			+		+	+
1				112.5	•	•	•	•	117.6			1	1
+		-			+	+-	+	+	++	+		+	+

F - FREQUENCY HZ

SPL - SOUND PRESSURE LEVEL DB RE 2E-5 PA

MICROPHONE: MP 5 (PITCH ANGLE: 20.8 DEG)

1			4	+ 	~-~		-	DATA-	POINT /	RUN				
1	+			JN	-1 /	188	1	JN	-2 /	189			£	
1		HN		F	SPL	SPLA	j	F	SPL	SPLA		F	SPL	SPLA
3 240.0 102.0 93.4 270.0 113.4 104.8	Ì	1		80.0	106.9	84.4	1	90.0	115.4	96.3)
4 320.0 103.8 97.2 360.0 115.8 111.0	- !				•	•	ļ	:			!!			
5 400.0 99.2 94.4 450.0 107.1 103.9	ļ	3	Ш		•	•	İ		•	•				
6	ļ		: :		•	<u>:</u>	ļ			:	ļ		!	
7	1	_	: :		<u>:</u>	:	ļ		:		İ		!	
8	1		1		-	-	ì			:	1]	
9 720.0 88.1 87.3 810.0 104.6 103.8	ļ		1		:	1	ŀ		:	:			 	
10	ŀ				<u> </u>	-	ļ	•	•	:	1		 	
11	1		Н			•	1	•	•	:	l		(
12 960.0 0.0 0.0 1080.0 101.0 101.0	ì		 		•		1	•	•		1		! [
13 1040.9 0.0 0.0 1170.0 98.0 98.6	1		1 1 1 1	•	•	•	1		:	•	†) 	
14 1120.0 0.0 0.0 1260.0 100.0 100.6	1		1 1		:	:		•	•	•	1			
15	i		٠.			:	•	•	:	:	i			
16	i		: :		:	•		:	•	7	i			
17	i		: :			:	- :	<u>.</u>	•		i		i	
18	i				:	:	•	•	:	:	i		i i	
19 1520.0 0.0 0.0 1710.0 88.4 89.4	į		: :		:	0.0		•	•	•	i	i		
20 1600.0 0.0 0.0 1800.0 89.2 90.4	j		: :			0.0		•	88.4	•	i		İ	
22 1760.0 0.0 0.0 1980.0 84.8 86.0	Ì		: :		0.0	0.0	- 1	:	89.2	90.4	į		İ	
23	1	21	Ħ	1680.0	0.0	0.0	ĺ	1890.0	83.9	85.1	İ			
24 1920.0 0.0 0.0 2160.0 78.8 80.0	1	22	1	1760.0	0.0	0.0		1980.0	84.8	86.0	1			
25	1	23	11	1840.0	0.0	0.0	1	2070.0	82.8	84.0	1			
26 2080.0 0.0 0.0 2340.0 75.9 77.2	1	24	1	1920.0	0.0	0.0		2160.0	78.8	80.0	1		İ	
27 2160.0 0.0 0.0 2430.0 74.5 75.8	-		: :				•	•		•			1	
28	-		: :					•			İ		İ	
29 2320.0 0.0 0.0 2610.0 70.3 71.6	!		•			-		•	!	•	1		!	
30 2400.0 0.0 0.0 2700.0 71.2 72.5	ļ		•				•			: _ :	ļ		!	
31 2480.0 0.0 0.0 2790.0 63.6 69.9	1		٠,									İ		
32 2560.0 0.0 0.0 2880.0 67.0 68.2	1		. :							•	1	1	} 	
33 2640.0 0.0 0.0 12970.0 62.7 63.9	l							•			1	i	1	
34 2720.0 0.0 0.0 3060.0 0.0 0.0	1											 		
35 2800.0 0.0 0.0 3150.0 0.0 0.0	1									1				
36 2880.0 0.0 0.0 3240.0 0.0 0.0									•	:	:		 	
37 2960.0 0.0 C.0 3330.0 0.0 0.0	i											i	ļ	
38 3040.0 0.0 0.0 3420.0 0.0 0.0 39 3120.0 0.0 0.0 3510.0 0.0 0.0 40 3200.0 0.0 0.0 3600.0 0.0 0.0	ί									•	:	,	,	
39 3120.0 0.0 0.0 3510.0 0.0 0.0	i		•				- 1			•	:	i	i	
40	i										:	i	i	ļ
+	İ	-								•	İ	į	i	
·	+		H										-	
1 04 dBt 1114 0 1100 0 11 1404 E 1447 E 11 1 1	+	- -										+	+	
OASPL 111.3 102.3				,						•	•	!	1	

F - FREQUENCY HZ

SPL - SOUND PRESSURE LEVEL DP RE 2E-5 PA SPLA - A-WEIGHTED SOUND PRESSURE LEVEL DBA RE 2E-5 PA

MICROPHONE: MP 6 (PITCH ANGLE: 20.8 DEG)

	•	+ !			DATA-	POINT /	RUN				·+ !
+	-+-	 JN	-1 /	188	JN	-2 /	189			+	
HN	į	F	SPL	SPLA	F	SPL	SPLA		F	SPL	SPLA
1	į	80.0		•	: :	67.8	48.7				
: -	1	!	0.0	:	180.0	•	51.5				
3	ļ	•		•		62.7 0.0	54.1 0.0			ļ	
4	ł	320.0 400.0	1	:	360.0 450.0		0.0				;
6	i	480.0	Ī		540.0	:	0.0				!
1 7	i	560.0	0.0		630.0	:	0.0	H			i
8	i	640.0	0.0	•	720.0	<u>:</u>	0.0	i			i
j 9	i	720.0	0.0	•	810.0	0.0	0.0	li		i	i
10	İ	800.0	0.0	0.0	900.0	0.0	0.0	i i		İ	į
111	1	880.0	0.0	0.0	990.0	0.0	0.0				ĺ
12	İ	960.0	0.0	•	1080.0	0.0	0.0				1
13	•	1040.0	0.0	•	1170.0	0.0	0.0	ļ			ļ
14		1120.0	0.0	_	1260.0	0.0	0.0	ļ			Į
15	•	1200.0	•	:	1350.0	0.0	0.0	ļ			!
16	•	1280.0	:	•	11440.0	•	0.0	!		ļ 	ļ
17		1360.0 1440.0		•	1530.0 1620.0	•	0.0				!
		1520.0		•	1710.0	•	0.0 0.0	1			
1 20		1600.0	0.0		1800.0	:	0.0 [1			}
21		1680.0	0.0	:	1890.0		:	i			i
22		1760.0	0.0	•	1980.0	<u>-</u>	: :	i		ľ	ì
23		1840.0			2070.0		0.0	i		i	i
j 24		1920.0			2160.0	•	i 0.0 i	İ		i	Í
25	Ħ	2000.0	0.0	0.0	2250.0	0.0	0.0	ĺ		ĺ	j
26		2080.0	0.0		2340.0	0.0	0.0	1	i	į	1
27	11	2160.0	0.0		2430.0	0.0	0.0	1		ļ	+
•		2240.0	0.0	:	2520.0	0.0	0.0	į		!	!
•		2320.0			2610.0			!		!	!
•		2400.0	0.0		2700.0		:	ļ	!	ļ	ļ
:		2480.0	0.0		12790.0	0.0	: :	!		Į I	
33	- : :	2560.0 2640.0			2880.0 2970.0	0.0	0.0 0.0	- 1			
		2720.0			3060.0	0.0				i	i
	: :	2800.0			3150.0	0.0		i	ï	i	1
		2880.0			3240.0	0.0	0.0	i	ľ	i	:
•	• • •	2960.0			3330.0		0.0 j	i	i	i	i
•	٠.	3040.0			3420.0		0.0 j	İ	į	i	i
		3120.0		0.0	3510.0	0.0	0.0		Í	İ	j
40	П	3200.0	0.0		3600.0			1	ĺ	ĺ	İ
+	++			,	-+			+ •	+	+	+
+					+				+	+	+
Į.	O.F			38.3	 		56.8	•		!	!
+				1			r+	+ -		+	+

F - FREQUENCY HZ

SPL - SOUND PRESSURE LEVEL DB RE 2E-5 PA

MICROPHONE: MP 7 (PITCH ANGLE: 20.8 DEG)

		+ !			-	DATA-	POINT /	RUN	-			+ إ
+	+	 JN	-1 /		-	JN	-2 / :	189	1		+	 ++
H	IN	Ī	SPL	SPLA			SPL	SPLA	1	F	SPL	SPLA
į	1	80.0	109.8	•	:	:	115.0				ļ	
!	2		1	:	ļ	•	0.0	0.0	•		ļ	
	3		0.0	•	1		:	0.0			†	
-	4	:		•			0.0	0.0				
1	5 6	:	0.0 0.0	•	•	450.0 540.0	•	0.0 0.0	1		! !	1
i	7	1	0.0	•	•	630.0	•		ì		1	
i	8	•	0.0	•	-	720.0	•	•			! !	
ì	9	:	0.0	•	•	810.0	•	•	ì		<u>'</u>	
1	.o i	•	0.0	:		900.0		0.0	•		i	i
:	1		0.0	•	•	990.0	0.0	0.0	•		j i	i
1	2	960.0	0.0	:	- 1	1080.0	0.0	0.0	İ		İ	į
1	.3	1040.0	0.0	0.0	١	1170.0	0.0	0.0	1		1	1
1		1120.0	•	0.0	l	1260.0	0.0	0.0	1		1 1	1
•	•	1200.0	•	•		1350.0	0.0		ļ			ļ
•		1280.0	•	•	7	1440.0	0.0	0.0	Ţ		! !	ļ
		1360.0	:	1		1530.0	0.0	0.0	!			!
•	•	1440.0	:	•	•	1620.0	0.0	0.0	!		ļ !	ļ
•		1520.0	0.0		:	1710.0	0.0	0.0	1		 	!
:		1600.0 1680.0	:		:	1800.0 1890.0	0.0		1		[!
	•	1760.0	0.0		•	1980.0	0.0		1		! !	i
•		1840.0				2070.0	0.0		:			ì
•	- :	1920.0			•	2160.0			:		İ	i
•		2000.0		•	•	2250.0			i		i i	i
		2080.0		•	•	2340.0			i	j	İ	i
2	7	2160.0				2430.0		:	İ		İ	İ
2	8	2240.0	0.0	0.0		2520.0	0.0	0.0	I			1
2	•	2320.0	0.0	0.0	1	2610.0	0.0	0.0	l			1
:		2400.0	0.0			2700.0	0.0	:	ļ			!
•		2480.0	0.0		•	2790.0	0.0	0.0	ļ			ļ
		2560.0				2880.0					[!
		2640.0				2970.0			:	İ		ļ
		2720.0 2800.0				3060.0 3150.0		:	:) 	1
•	•	2880.0 2880.0	•		•	3240.0		0.0	:		 	I I
		2960.0				3330.0						ł 1
•		3040.0				3420.0		:		İ		ľ
•		3120.0				3510.0					i i	i
•		3200.0				3600.0					İ	i
+	+-	+							+•		+	+
+			·						-		++ 	+
	0/		109.8			 		95.9	•			_ !
+					_		r1		Τ.			+

F - FREQUENCY HZ

SPL - SOUND PRESSURE LEVEL DB RE 2E-5 PA

WARRI SESSECTE SERVICES PROPERTY BENEVIOUS RESERVES.

MICROPHONE: MP 9 (PITCH ANGLE: 20.8 DEG)

JN-1 / 188 JN-2 / 189	SPLA
1 80.0 108.0 85.5 90.0 113.7 94.6 2 160.0 103.9 90.5 180.0 108.7 97.8 3 240.0 101.8 93.2 270.0 114.2 105.6 4 320.0 103.5 96.9 360.0 112.2 107.4 5 400.0 99.4 94.6 450.0 107.9 104.7 6 480.0 97.0 93.8 540.0 110.5 107.3 7 560.0 96.6 93.4 630.0 108.4 106.5	SPLA
2 160.0 103.9 90.5 180.0 108.7 97.8 3 240.0 101.8 93.2 270.0 114.2 105.6 4 320.0 103.5 96.9 360.0 112.2 107.4 5 400.0 99.4 94.6 450.0 107.9 104.7 6 480.0 97.0 93.8 540.0 110.5 107.3 7 560.0 96.6 93.4 630.0 108.4 106.5 8 640.0 93.4 91.5 720.0 106.5 105.7 9 720.0 90.4 89.6 810.0 106.9 106.1 10 800.0 86.1 85.3 900.0 103.6 103.6 11 880.0 0.0 0.0 990.0 103.2 103.2	
3 240.0 101.8 93.2 270.0 114.2 105.6	
4 320.0 103.5 96.9 360.0 112.2 107.4	
5 400.0 99.4 94.6 450.0 107.9 104.7	
6 480.0 97.0 93.8 540.0 110.5 107.3	/
7 560.0 96.6 93.4 630.0 108.4 106.5 8 640.0 93.4 91.5 720.0 106.5 105.7 9 720.0 90.4 89.6 810.0 106.9 106.1 10 800.0 86.1 85.3 900.0 103.6 103.6 11 880.0 0.0 0.0 990.0 103.2 103.2	†
8 640.0 93.4 91.5 720.0 106.5 105.7 9 720.0 90.4 89.6 810.0 106.9 106.1 10 800.0 86.1 85.3 900.0 103.6 103.6 11 880.0 0.0 0.0 990.0 103.2 103.2	† i †
9 720.0 90.4 89.6 810.0 106.9 106.1 10 800.0 86.1 85.3 900.0 103.6 103.6 11 880.0 0.0 0.0 990.0 103.2 103.2	1
10 800.0 86.1 85.3 900.0 103.6 103.6	! ! [
11 880.0 0.0 0.0 990.0 103.2 103.2	
	i i
1 22 >000 000 1200000 20000 1	
13 1040.0 0.0 0.0 1170.0 101.2 101.8	; ; []
14 1120.0 0.0 0.0 1260.0 97.8 98.4	i i
15 1200.0 0.0 0.0 1350.0 98.3 98.9	i i
16 1280.0 0.0 0.0 1440.0 97.2 98.2	i i
17 1360.0 0.0 0.0 1530.0 93.2 94.2	i i
18 1440.0 0.0 0.0 1620.0 93.2 94.2	j i
19 1520.0 0.0 0.0 1710.0 92.0 93.0	j j
20 1600.0 0.0 0.0 1800.0 89.9 91.1	İ
21 1680.0 0.0 0.0 1890.0 88.9 90.1	l İ
22 1760.0 0.0 0.0 1980.0 86.9 88.1	l İ
23 1840.0 0.0 0.0 2070.0 80.4 81.6	1
24 1920.0 0.0 0.0 2160.0 84.8 86.0	
25 2000.0 0.0 0.0 2250.0 81.5 82.8	
26 2080.0 0.0 0.0 2340.0 79.7 81.0	! !
27 2160.0 0.0 0.0 2430.0 81.9 83.2	!!!
28 2240.0 0.0 0.0 2520.0 77.9 79.2	!!
29 2320.0 0.0 0.0 2610.0 73.9 75.2	!!
30 2400.0 0.0 0.0 2700.0 0.0 0.0	į
31 2480.0 0.0 0.0 2790.0 0.0 0.0	
32 2560.0	
33 2640.0 0.0 0.0 2970.0 0.0 0.0 34 2720.0 0.0 0.0 3060.0 0.0 0.0	, , , ,
35 2800.0 0.0 0.0 3150.0 0.0 0.0]
36 2880.0 0.0 0.0 3240.0 0.0 0.0	, I
37 2960.0 0.0 0.0 3330.0 0.0 0.0	, <u> </u>
38 3040.0 0.0 0.0 3420.0 0.0 0.0	' !
39 3120.0 0.0 0.0 3510.0 0.0	
40	<u> </u>
+++	+
+	 +
OASPL 111.7 102.7	

F - FREQUENCY HZ

SPL - SOUND PRESSURE LEVEL DB RE 2E-5 PA

MICROPHONE: MP 1 (PITCH ANGLE: 19.9 DEG)

		!	DATA-POINT / RUN										
4		KN	-1 /	187		-2 /	186	KN	-3 / +	185 +			
	HN	F	SPL	SPLA	 F	SPL	SPLA	F	SPL	SPLA			
į	1	70.0	97.4	•		104.3	, ,	•	109.2	90.1			
ļ		140.0	91.6			101.7	88.3	•	106.8	95.9			
!		210.0	89.3	!	240.0	97.0	88.4	•	106.5	97.9			
ļ	4	280.0	84.0	•	320.0	93.1	86.5	360.0	103.7	98.9			
-	5	350.0	78.1	71.5	400.0	91.7	86.9	450.0	99.2	96.0			
1	-	420.0	75.2	70.4	480.0	82.9	79.7	540.0	100.4	97.2			
1		490.0 560.0	67.7		560.0	79.3 74.2	76.1 72.3	630.0 720.0	96.8	94.9			
[560.0 630.0	64.1		640.0 720.0	74.2	73.0	810.0	93.0	91.5 92.2			
1		700.0	0.0		720.0 800.0	67.4	66.6	900.0	91.0	91.0			
i		770.0	0.0		880.0	58.8	58.0 58.0	990.0	85.9	85.9			
í	-	840.0	0.0	:	960.0	0.0		1080.0	80.1	80.1			
i		910.0	0.0	•	1040.0	0.0		1170.0	78.3	78.9			
i		980.0	0.0	•	1120.0	0.0		1260.0	78.4	79.0			
i	-	1050.0	0.0	•	1200.0	0.0	•	1350.0	65.6	•			
i		1120.0	0.0	•	1280.0	0.0		1440.0	68.9	69.9			
i		1190.0	0.0	•	1360.0	0.0	•	1530.0	61.3	62.3 j			
i		1260.0	0.0	0.0	1440.0	0.0		1620.0	0.0	j 0.0 j			
Ì	19	1330.0	0.0	0.0	1520.0	0.0	0.0	1710.0	0.0	0.0			
ĺ	20	1400.0	0.0	0.0	[1600.0	0.0	0.0	1800.0	0.0	0.0			
ĺ	21	1470.0	0.0	0.0	1680.0	0.0	0.0	1890.0	0.0	0.0			
- [22	1540.0	0.0	0.0	1760.0	0.0	0.0	1980.0	0.0	0.0			
i	23	1610.0	0.0	0.0	1840.0	0.0	0.0	2070.0	0.0	0.0			
1		1680.0	0.0	•	1920.0	0.0	•	2160.0	0.0	0.0			
1		1750.0	0.0	•	2000.0	0.0		2250.0	0.0	0.0			
ļ	-	1820.0	0.0	•	2080.0	0.0	•	2340.0	0.0	0.0			
ļ	•	1890.0	0.0		2160.0	0.0	:	2430.0	0.0	0.0			
į		1960.0	0.0	:	12240.0	0.0		2520.0	0.0	0.0			
Ţ	-	2030.0	0.0	•	2320.0	0.0	:	2610.0	0.0	0.0			
		2100.0	0.0	•	2400.0	0.0		2700.0	0.0	0.0			
		2170.0	0.0		12480.0	0.0		[2790.0 [2880.0	0.0 0.0	0.0 0.0			
ļ		2240.0 2310.0			2560.0 2640.0			2970.0		: :			
		2310.0			2720.0	:		3060.0		•			
1	•	2450.0			[2800.0			3150.0		: :			
1	_	2520.0			2880.0	•		3240.0	•	:			
1		2590.0			2960.0	-		3330.0	•	•			
1		2660.0			3040.0	•		3420.0	•	: :			
		2730.0											
		2800.0											
+		+											
+				+	+	+	-	+	·	++			
١		ASPL								105.6			
+	<i>-</i>				+		+	+	<u> </u>	++			

F - FREQUENCY HZ
SPL - SOUND PRESSURE LEVEL DB RE 2E-5 PA
SPLA - A-WEIGHTED SOUND PRESSURE LEVEL DBA RE 2E-5 PA

MICROPHONE: MP 2 (PITCH ANGLE: 19.9 DEG)

+	+ -	l Kn	DATA-POINT / RUN											
i m	J I	+	-1 / :	187 	1	KN-	-2 /	-	KN	-3 /	 185 ++			
÷	` +	F +	SPL	SPLA	<u> </u>	, F	SPL	SPLA	F	SPL	SPLA			
•	1	-	101.7	75.5	į	•	107.6	85.1	•	111.3	92.2			
•	2	140.0	98.0	81.9	ļ	•	105.8	92.4	•	•	107.0			
•	3	210.0	94.6	83.7	ļ	•	102.2	93.6	•	108.0	99.4			
•	4	280.0	88.8	80.2	ļ	•	100.3	93.7	•	•	105.5			
•	5	350.0	79.9	73.3	ŀ	400.0	98.6	93.8	•	•	106.1			
•	5	420.0	78.6	73.8	ŀ	480.0	96.3	93.1	•	•	105.9			
•	7	490.0	0.0	0.0	ļ	560.0	93.3	90.1	•	•	105.4			
	3	560.0	0.0			640.0 720.0	89.3	87.4	•	•	102.8 103.7			
1 10	9	630.0 700.0	0.0	0.0 0.0	1	800.0	85.1 84.3	84.3 83.5	•	•	103.7			
1 1	•	:	0.0	0.0	H	880.0	81.2	80.4	990.0	99.0	99.0			
1 12			0.0 0.0	0.0	H	960.0	77.2	77.2	1080.0	98.7	98.7			
1 13		910.0	0.0		ŀ	1040.0	72.6	. ,	1170.0	97.3	97.9			
14	:	980.0	0.0	- *	•	1120.0	67.2	•	1260.0	94.5	95.1			
1 1	•	1050.0	0.0	0.0	•	1200.0	67.1	•	1350.0	94.2	94.8			
1 10		1120.0	0.0	0.0	•	1280.0	62.7	63.3	1440.0	89.6	90.6			
1 1	_ :	1190.0	0.0	0.0	•	1360.0	58.4	59.0	1530.0	88.4	89.4			
110		1260.0	0.0	0.0	•	1440.0	0.0		1620.0	87.7	88.7			
1 19	•	1330.0	0.0		:	1520.0	0.0	: :	1710.0	84.5	85.5			
20		1400.0	0.0	ľ	•	1600.0	0.0		1800.0	83.3	84.5			
2	•	1470.0	0.0		•	1680.0	0.0	•	1890.0	79.6	80.8			
22	•	1540.0	0.0		•	1760.0	0.0	•	1980.0	79.9	81.1			
j 23	•	1610.0	0.0		•	1840.0	0.0	•	2070.0	76.4	77.6			
1 24	•	1680.0	0.0			1920.0	0.0	•	2160.0	73.4	74.6			
j 25		1750.0	0.0	0.0	Ü	2000.0	0.0	: :	2250.0	73.2	74.5			
26	5 j	1820.0	0.0	0.0		2080.0	0.0	0.0	2340.0	70.1	71.4			
27	7	1890.0	0.0	0.0		2160.0	0.0	0.0	2430.0	69.4	70.7			
28	3	1960.0	0.0	0.0		2240.0	0.0	0.0	2520.0	68.9	70.2			
29	9	2030.0	0.0	0.0		2320.0	0.0	0.0	2610.0	64.8	66.1			
30)	2100.0	0.0	0.0	$\ $	2400.0	0.0		2700.0	60.8	62.1			
31			0.0				0.0		2790.0	0.0	0.0			
		2240.0	0.0			2560.0			2880.0					
		2310.0				2640.0			2970.0	•				
		2380.0				2720.0			3060.0	-				
•	•	2450.0			: :	2800.0			3150.0	•	0.0			
•		2520.0			: :	2880.0			3240.0	:	0.0			
•		2590.0			: :	2960.0			3330.0		0.0			
38		2660.0				3040.0			3420.0	•				
, , , , , , , , , , , , , , , , , , , ,						3120.0			3510.0	•	0.0			
•	•	2800.0	0.0		•	3200.0			3600.0 +	•	0.0 			
+			,		•		'		+	•	, - ++			
i		ASPL	104.0	87.6	П		111.4	101.3		120.9	114.8			

- FREQUENCY HZ

SPL - SOUND PRESSURE LEVEL DB RE 2E-5 PA

MICROPHONE: MP 3 (PITCH ANGLE: 19.9 DEG)

	DATA-POINT / RUN											
+ +	 KN	-1 / :	187	KN	-2 /	186 ++	KN	-3 / +	185 +			
HN	j F	SPL	SPLA	F	SPL	SPLA	F	SPL	SPLA			
1 1		104.5	•		110.4	87.9		110.9	91.8			
2	:	99.7		160.0	107.3		•	•	100.4			
3	:	95.2	•	240.0	105.9	97.3	•	110.0	101.4			
4	280.0	89.7	81.1	320.0	100.7	94.1	360.0	110.8	106.0			
5	350.0	88.0	81.4	400.0	102.2	97.4	450.0	1111.8	108.6			
6 1	420.0	85.9	81.1	480.0	98.4	95.2	540.0	108.2	105.0			
7	490.0	80.5	77.3	560.0	92.2	89.0	630.0	108.0	106.1			
8	560.0	73.5	70.3	640.0	92.2	90.3	720.0	108.3	107.5			
9	630.0	68.6	66.7	720.0	90.2	89.4	•	•	105.6			
10	700.0	63.9	62.0	800.0	87.4	86.6	•	•	105.4			
11	770.0	0.0	0.0	880.0	84.0	83.2	•	•	1104.7			
12	840.0	0.0		960.0 1040.0	81.6	81.6	11170.0	102.4 99.1	102.4			
13	910.0	0.0	•	11120.0	79.6	79.6 75.0	1170.0 1260.0	•	99.7 100.9			
•	980.0 1050.0	0.0	•	1120.0	75.0 70.6		1350.0	100.3 97.8	98.4			
	1120.0	0.0	•	1280.0	70.4		11440.0	96.3	97.3			
	1120.0	0.0	•	1260.0	66.1	•	1530.0	94.0	95.0			
•	1260.0	0.0		11440.0	61.4		1620.0	93.9	94.9			
	1330.0	0.0		1520.0	58.6	: :	1710.0	92.3	93.3			
	1400.0	0.0		1600.0	57.6	: :	1800.0	88.1	89.3			
7	1470.0	0.0	0.0	1680.0	55.9	: :	1890.0	86.9	88.1			
	1540.0	0.0		1760.0	0.0		1980.0	86.9	88.1			
•	1610.0	0.0		1840.0	0.0		2070.0	84.8	86.0			
	1680.0	0.0		1920.0	0.0		2160.0	81.0	82.2			
	1750.0	0.0		2000.0	0.0	i 0.0 i	2250.0	81.5	82.8			
	1820.0	0.0		2080.0	0.0	0.0	2340.0	79.8	j 81.1 j			
•	1890.0	0.0		2160.0	0.0	•	2430.0	75.8	77.1			
28	1960.0	0.0		2240.0	0.0	i 0.0 j	2520.0	75.0	76.3			
29	2030.0	0.0	0.0	2320.0	0.0	0.0	2610.0	75.5	76.8			
30	2100.0	0.0	0.0	2400.0	0.0	0.0	2700.0	73.1	74.4			
31	2170.0	0.0	0.0	2480.0	0.0	0.0	2790.0	69.3	70.6			
•	2240.0			2560.0	0.0		2880.0	-				
•	2310.0			2640.0	0.0		2970.0					
	2380.0			2720.0	0.0	: :	3060.0		: :			
	2450.0			2800.0	0.0		3150.0		66.0			
•	2520.0			2880.0	0.0		3240.0	•	63.8			
	2590.0			2960.0	0.0		3330.0					
	2660.0			3040.0	•		3420.0	•	65.0			
•	2730.0			3120.0	•		3510.0					
	2800.0			3200.0 								
				-+								
0/	ASPL	106.3	90.1		113.9	103.7	1	[120.0]	116.3			

F - FREQUENCY HZ

SPL - SOUND PRESSURE LEVEL DB RE 2E-5 PA

MICROPHONE: MP 4 (PITCH ANGLE: 19.9 DEG)

		++ DATA-POINT / RUN												
		i KN	-1 /	187	ı		·		KN	-3 /	185			
+	HN	+ F	SPL	SPLA	+	+ F	SPL	++ SPLA	+ F	SPL	++ SPLA			
+	1	70.0	 107.0	80.8	+ 	80.0	113.0	+- + 90.5	90.0	112.6	93.5			
Ì	2	140.0	101.1	85.0	İ	160.0	108.0	94.6	180.0	111.8	100.9			
1	3	210.0	95.7	84.8	ĺ	240.0	107.4	98.8	270.0	111.5	102.9			
1	4	280.0	94.6	86.0		320.0	105.0	98.4	360.0	113.6	108.8			
1	5	350.0	89.3	82.7	1	400.0	101.1	96.3	450.0	111.4	108.2			
1	6	420.0	84.2	79.4	1	480.0	98.1	94.9	540.0	108.7	105.5			
1	7	490.0	78.3	75.1		560.0	95.5	92.3	630.0	109.2	107.3			
1	8	560.0	75.6	72.4		640.0	94.2	92.3	720.0	107.8	107.0			
1	9	630.0	74.4	72.5	İ	720.0	90.6	89.8	810.0	107.4	106.6			
١	10	700.0	68.7	66.8		800.0	89.4	88.6	900.0		106.2			
١	11	770.0	63.2	62.4	ļ	880.0	86.0	85.2	990.0	102.9	102.9			
ļ	12	840.0	0.0	0.0	ļ	960.0	83.7	83.7	1080.0	103.2	103.2			
Ţ	13	910.0	0.0	0.0	•	1040.0	80.2	80.2	1170.0	102.9	103.5			
Ţ	14	980.0	0.0	0.0	•	1120.0	78.0	,	1260.0	98.2	98.8			
Ţ	15	1050.0	0.0	•	•	1200.0	75.4		1350.0	99.4	100.0			
ļ	16	1120.0	0.0	•	-	1280.0	68.3		1440.0	97.8	98.8			
ŀ	•	1190.0	0.0			1360.0	67.8	•	1530.0	94.9	95.9			
!	•	1260.0	0.0	•	•	1440.0	65.0	•	1620.0	93.0	94.0			
ļ		1330.0	0.0		•	1520.0	59.2		1710.0	91.8	92.8			
-	•	1400.0	0.0			1600.0	0.0	•	1800.0	90.9	92.1			
1	21	1470.0 1540.0	0.0 0.0	0.0 0.0		1680.0	0.0	: :	11890.0	88.3	89.5 86.9			
¦	•	1610.0	0.0	0.0	•	1760.0 1840.0	0.0 0.0	0.0 0.0	1980.0 2070.0	85.7 85.4	86.6			
ł		1680.0	0.0	0.0	7	1920.0	0.0	•	2160.0	83.4	84.6			
1		1750.0	0.0	•	•	2000.0	0.0	0.0	2250.0	80.2	81.5			
i		1820.0	0.0		•	2080.0	0.0	0.0	2340.0	80.8	82.1			
1		1890.0	0.0	0.0	7	2160.0	0.0	0.0	2430.0	79.3	80.6			
i		1960.0	0.0		•	2240.0	0.0		2520.0	77.6	78.9			
i	•	2030.0	0.0		•	2320.0	0.0	•	2610.0	76.4	77.7			
i	-	2100.0	0.0			2400.0	0.0	:	2700.0	74.3	75.6			
i	•	2170.0	0.0		•	2480.0	0.0	,	2790.0	72.8	74.1			
i		2240.0			•	2560.0	0.0	•	2880.0	72.3	: :			
İ		2310.0	0.0			2640.0	0.0		2970.0	69.7	•			
İ		2380.0				2720.0	0.0	0.0	3060.0	66.1	67.3			
ĺ	35	2450.0	0.0	0.0		2800.0	0.0		3150.0	•	69.0			
İ	36	2520.0	0.0	0.0		2880.0	0.0		3240.0		67.2			
l		2590.0				2960.0	0.0		3330.0	•	66.4			
1	•	2660.0			-	3040.0	-		3420.0	•	61.4			
ļ	•	2730.0				20.0 د ا	•		3510.0	•				
ļ		2800.0							3600.0					
+	+ 	+							+ +					
1	0		108.5					105.0			117.0			
+					•			•	-		•			

F - FREQUENCY HZ

SPL - SOUND PRESSURE LEVEL DB RE 2E-5 PA

MICROPHONE: MP 5 (PITCH ANGLE: 19.9 DEG)

	•	DATA-POINT / RUN												
+	- 4-	l KN	-1 /	187 +		•	-2 /		1	-	-3 / +	 185 		
HN	<u>.</u>	F +	SPL	SPLA	•	•	SPL		•	•	SPL	SPLA		
1	į	•	108.1	-	į	•	114.8	•			114.3	95.2		
2	- [•	101.9	85.8	ļ	•	109.3	•			107.3	96.4		
3	1	•	93.6	82.7	ļ	240.0	105.4	96.8	ļ	•	•	104.1		
1 4	ŀ	280.0	93.2	84.6	!	320.0	107.1	100.5		•	•	110.0		
5	- [350.0	89.4	82.8	ļ	•	103.2	98.4			•	102.7		
6	1		83.6	78.8	ļ	480.0	95.5	92.3			•	104.6		
7	ļ		76.5	73.3	1	560.0	96.3	93.1		•	•	107.0		
8	- [560.0 630.0	76.7	73.5 66.4	!	640.0	93.9	92.0		Ī.	•	105.2		
1 10	}	700.0	68.3 65.8	63.9	1	720.0 800.0	89.5 86.1	88.7 85.3	}	•	•	103.1 103.0		
111	1	:	0.0		1		83.1		! 		•	103.0 103.5		
12	í	:	0.0	0.0	ŀ	960.0	81.1	•	•	•	•	100.3		
1 13	i	:	0.0	•	ŀ	1040.0	79.1	•	•	1170.0	97.6	98.2		
14		:	0.0	•	•	1120.0	74.9	•	•	1260.0	99.1	99.7		
15		1050.0	0.0	•	•	1200.0	69.2	•	•	1350.0	96.3	96.9		
16	-	1120.0	0.0	0.0	•	1280.0	69.8	•		1440.0	92.5	93.5		
1 17		1190.0	0.0	0.0	•	1360.0	65.4	•	•	1530.0	93.8	94.8		
18	•	1260.0	0.0	0.0	•	1440.0	60.8	•		1620.0	88.9	89.9		
19		1330.0	0.0	•	•	1520.0	59.2	:		1710.0	87.6	88.6		
20	•	1400.C	0.0	•	•	1600.0	0.0			1800.0	88.6	89.8		
21		1470.0	0.0	•	•	1680.0	0.0	,		1890.0	82.8	84.0		
22	1	1540.0	0.0	0.0	İ	1760.0	0.0	0.0	Ì	1980.0	83.1	84.3		
23	İ	1610.0	0.0	0.0	ĺ	1840.0	0.0	0.0		2070.0	83.3	84.5		
24		1680.0	0.0	0.0	ļ	1920.0	0.0	0.0		2160.0	76.9	78.1		
25	1	1750.0	0.0	0.0	-	2000.0	0.0	0.0		2250.0	80.1	81.4		
26	1	1820.0	0.0	0.0		2080.0	0.0	0.0		2340.0	73.3	74.6		
27	1	1890.0	0.0	0.0		2160.0	0.0	0.0		2430.0	74.5	75.8		
28		1960.0	0.0		•	2240.0	0.0			2520.0	72.1	73.4		
29		2030.0	0.0	0.0	•	2320.0	0.0			2610.0	69.9	71.2		
30		2100.0	0.0	0.0	•	2400.0	0.0			2700.0	67.6	68.9		
31		2170.0	0.0		•	2480.0	0.0			2790.0	0.0	0.0		
		2240.0				2560.0				2880.0				
-						2640.0				2970.0		•		
•		2380.0				2720.0				3060.0		•		
		2450.0			-	2800.0				3150.0				
•		2520.0				2880.0				3240.0				
		2590.0				2960.0						•		
		2660.0			-	3040.0		•				,		
39 2730.0 0.0 0.0 3120.0 0.0 0.0 3510.0 0.0 0.0 40 2800.0 0.0 0.0 3200.0 0.0 0.0 3600.0 0.0 0.0														
						3200.0 								
,														
÷			+		+-			- -+	-					

F - FREQUENCY I'Z

SPL - SOUND PRESSURE LEVEL DB RE 2E-5 PA SPLA - A-WEIGHTED SOUND PRESSURE LEVEL DBA RE 2E-5 PA

AND STATES SERVICE SERVICES SERVICES SERVICES

MICROPHONE: MP 6 (PITCH ANGLE: 19.9 DEG)

	DATA-POINT / RUN											
+	 KN	-1 /				-2 /	186 +	1	•	-3 /	185 	
HN	F	SPL	SPLA		F	SPL	SPLA	 -	F	SPL	SPLA	
1 1	70.0	95.6	69.4			108.9	86.4		•	114.2	95.1	
2	140.0	87.5	71.4	11		102.1	88.7	}	•	1109.2	98.3	
3	210.0	77.8	66.9	!!	240.0	98.5	89.9		•	110.2 109.2	101.6	
1 4	280.0	76.8	68.2		320.0	97.6 90.9	91.0 86.1	 	1 450.0	99.3	104.4 96.1	
6	350.0 420.0	74.4 60.0	67.8 55.2		400.0 480.0	81.2	78.0	1	•	106.2	30.1 103.0	
1 7	1 420.0	0.0	•			86.5	83.3	 	•	103.5	103.0 101.6	
	490.0	0.0	•			82.6	80.7	1	720.0	90.8	90.0	
9	11 630.0	0.0	0.0	1 1	720.0	71.3	70.5		810.0	100.2	99.4	
. 10	700.0	0.0	0.0	H	800.0	74.9	74.1	l I	900.0	95.8	95.8	
- 1	770.0	0.0	0.0	Н	880.0	70.0	69.2	1	990.0	84.5	84.5	
	840.0	0.0	0.0	Н	960.0	63.8	•	 	1080.0	93.2	93.2	
13	910.0	0.0	-	ii	1040.0	55.5	•	•	1170.0	88.0	88.6	
14	980.0	0.0	0.0	: :	1120.0	0.0	*	•	1260.0	80.0	80.6	
15	1050.0	0.0	0.0		1200.0	0.0	•	•	1350.0	88.1	88.7	
j 16	11120.0	0.0	0.0	ij	1280.0	0.0	0.0	İ	1440.0	j 78.9	j 79.9 j	
j 17	11190.0	0.0	0.0		1360.0	0.0	•		1530.0	73.8	74.8	
18	1260.0	0.0	0.0	Ħ	1440.0	0.0	0.0		1620.0	74.7	75.7	
19	1330.0	0.0	0.0	H	1520.0	0.0	0.0		1710.0	68.5	69.5	
20	1400.0	0.0	0.0	П	1600.0	0.0	0.0		1800.0	72.2	73.4	
21	1470.0	0.0	0.0	1	1680.0	0.0			1890.0	71.9	73.1	
	1540.0	0.0	0.0	П	1760.0	0.0			1980.0	63.2	64.4	
	1610.0	0.0	0.0	П	1840.0	0.0	•		2070.0	0.0	0.0	
•	1680.0	0.0		: :	1920.0	0.0			2160.0	0.0	0.0	
•	[[1750.0	0.0			2000.0	0.0			2250.0	0.0	0.0	
•	1820.0	0.0		: :	2080.0	0.0			2340.0	0.0	0.0	
•	1890.0	0.0	0.0		2160.0	0.0	•		2430.0	0.0	0.0	
•	11960.0	0.0	0.0		2240.0	0.0			2520.0	0.0	0.0	
29	2030.0	0.0	0.0		2320.0	0.0			2610.0	0.0	0.0	
,	2100.0 2170.0	0.0 0.0			2400.0 2480.0	0.0 0.0			2700.0 2790.0	0.0	0.0	
	2240.0				2560.0				2880.0	0.0	0.0 0.0	
	1 2310.0				2640.0				2970.0		:	
•	2380.0	•		٠.	2720.0				3060.0		:	
•	1 2450.0	•		: :	2800.0				3150.0		: :	
	2520.0			: :	2880.0			- 1	3240.0	•		
	2590.0			: :	2960.0				3330.0	: :	: :	
	2660.0			: :	3040.0				3420.0	: :		
•	2730.0						3510.0					
•	2800.0	•		: :	3200.0				3600.0	•		
•	++	+							+			
+		•							h			
1											110.3	
+		t		++		·		-+	+	+	++	

F - FREQUENCY HZ

SPL - SOUND PRESSURE LEVEL DB RE 2E-5 PA

MICROPHONE: MP 7 (PITCH ANGLE: 19.9 DEG)

	DATA-POINT / RUN											
+		l KN	-1 /				-2 / :	186 +	 -	KN	-3 / :	185
HN	1	, F +	SPL			F	SPL	SPLA	1	F	SPL	SPLA
1	İ	•	104.9				111.5		ļ	•	113.1	94.0
2	ļ	140.0	94.9	78.8	!!		102.9	89.5	ļ	180.0	0.0	0.0
3	ļ	210.0	86.0	75.1	!!		100.6	92.0	ļ	270.0	0.0	0.0
4	ļ	•	0.0			320.0	90.0		1	•	0.0	0.0
5	!		0.0		!!	400.0	86.2	81.4	ļ	450.0	0.0	0.0
6	!	420.0	0.0	•	!!	480.0	68.0	64.8	ļ	540.0	0.0	0.0
7	!	490.0	0.0			560.0	0.0	0.0	1	630.0	0.0	0.0
8	[560.0	0.0			640.0		•	ļ	•	0.0	0.0
9	ļ	630.0	0.0			720.0	0.0	•	ļ	•	0.0	0.0
10	1	700.0	0.0		 1	800.0	0.0	<u>:</u>		•	0.0	
11 12	1	770.0 840.0	0.0 0.0	0.0 0.0]] 	880.0 960.0	0.0 0.0	•	1	990.0 1080.0	0.0	0.0
1 13	;	910.0	0.0		 	1040.0	0.0			1170.0	0.0	0.0
14	1	980.0	0.0		: :	1120.0	0.0	•	:	1260.0	0.0	0.0
1 15	;	1050.0	0.0			1200.0	0.0	•	•	1350.0	0.0	0.0
16		1120.0	0.0		: :	1280.0	0.0	•	:	1440.0	0.0	0.0
1 17	- :	1190.0	0.0			1360.0	0.0	•	:	1530.0	0.0	0.0
1 18	•	1260.0	0.0		•	1440.0	0.0	•	•	1620.0	0.0	0.0
19	•	1330.0	0.0			1520.0	0.0	•	•	1710.0	0.0	0.0
20	- 1	1400.0	0.0			1600.0	0.0	•	•	1800.0	0.0	0.0
21	•	1470.0	0.0	· :	: :	1680.0	0.0	•	:	1890.0	0.0	0.0
•		1540.0	0.0			1760.0	0.0	•	•	1980.0	0.0	0.0
23	İ	1610.0	0.0	0.0	İÌ	1840.0	0.0	0.0	ĺ	2070.0	0.0	0.0
24	1	1680.0	0.0	0.0	11	1920.0	0.0	0.0	l	2160.0	0.0	0.0
25	1	1750.0	0.0	0.0		2000.0	0.0	0.0		2250.0	0.0	0.0
26	1	1820.0	0.0	0.0	П	2080.0	0.0	0.0	İ	2340.0	0.0	0.0
27		1890.0	0.0	0.0	1	2160.0	0.0	0.0	1	2430.0	0.0	0.0
28		1960.0	0.0			2240.0	0.0	•	•	2520.0	0.0	0.0
29	•	2030.0	0.0			2320.0	0.0	•	•	2610.0	0.0	0.0
30	ļ	2100.0	0.0			2400.0	0.0		•	2700.0	0.0	0.0
31	ļ	2170.0	0.0			2480.0	0.0	•	•	2790.0	0.0	0.0
		2240.0				2560.0				2880.0		
•	•	2310.0				2640.0				2970.0		
•	- 1	2380.0				2720.0			:	3060.0		
•	•	2450.0		:		2800.0			:	3150.0		
•		2520.0				2880.0 2960 0			:	3240.0 3330.0		
· ·	•	2590.0 2660.0	_		: :	2960.0 3040.0	0.0			3330.0 3420.0	,	0.0
•		2730.0							•	3510.0		
•	•	2800.0				3200.0			-	3600.0		•
										+		
•										+		
1	0	ASPL	105.3	82.6		1	112.4	95.6			113.1	94.0
+				+	+				+-	+		+

- FREQUENCY HZ

SPL - SOUND PRESSURE LEVEL DB RE 2E-5 PA SPLA - A-WEIGHTED SOUND PRESSURE LEVEL DBA RE 2E-5 PA

MICROPHONE: MP 9 (PITCH ANGLE: 19.9 DEG)

	DATA-POINT / RUN											
+	 K	N-1 /	187 +	 -	•	-2 /		KN	-3 /	185 +		
HN	F	SPL	SPLA	 +-	F	SPL	SPLA	F	SPL	SPLA		
1	70.0	•	79.5	į	•	111.9	89.4	90.0	110.6	91.5		
2	140.0	101.7	85.6	!	160.0	107.5	94.1	180.0	107.3	96.4		
3	210.0	90.1	79.2	1	=	104.2	95.6	270.0	1113.8	105.2		
4	280.0	94.5	85.9		•	105.7	99.1	360.0	1111.2	106.4 104.8		
5 6	350.0 420.0	89.0 81.1	82.4	!	480.0	100.0 97.4	95.2 94.2	450.0 540.0	108.0 110.1	104.8		
1 7	420.0 490.0	0.0	0.0	ì	560.0	97.4	94.2 93.9	630.0	•	105.8		
/	490.0	0.0	0.0	1	640.0	93.3	93.9 91.4	720.0	•	105.8		
0	630.0	0.0	0.0	ŀ	720.0	89.5	88.7	•	•	105.6		
10	700.0	0.0	0.0	i	800.0	86.6	: :	900.0	•	103.4		
111	770.0	0.0	0.0	i	880.0	85.2	:	1 990.0	•	102.7		
12	840.0	0.0	0.0	i	960.0	78.8		1080.0	•	103.4		
13	910.0	0.0	0.0	i	1040.0	80.1	,	1170.0	•	101.3		
14	980.0	0.0	0.0	•	1120.0	77.4		1260.0	97.3	97.9		
15	1050.0	0.0	0.0	:	1200.0	71.2		1350.0	97.6	98.2		
j 16	1120.0	0.0	0.0	•	1280.0	69.3		1440.0	97.0	j 98.0 j		
1 17	jj1190.0	j 0.0	0.0	•	1360.0	66.2	66.8	1530.0	93.1	94.1		
18	[[1260.0	0.0	0.0	İ	1440.0	62.6	63.6	1620.0	92.7	j 93.7 j		
19	1330.0	0.0	0.0	ĺ	1520.0	0.0	0.0	1710.0	91.1	92.1		
20	1400.0	0.0	0.0		1600.0	0.0	0.0	[1800.0	89.0	90.2		
21	1470.0	0.0	0.0		1680.0	0.0	0.0	1890.0	88.4	39.6		
22	1540.0	0.0	0.0		1760.0	0.0	0.0	1980.0	85.7	86.9		
23	1610.0	0.0	•	•	1840.0	0.0	0.0	2070.0	79.6	80.8		
24	1680.0	0.0	•	•	1920.0	0.0	•	2160.0	85.3	86.5		
25	1750.0	0.0	•	•	2000.0	0.0	•	2250.0	81.7	83.0		
26	1820.0	0.0	•	ļ	2080.0	0.0	•	2340.0	78.7	80.0		
27	1890.0	0.0	0.0	ļ	2160.0	0.0		2430.0	80.3	81.6		
28	1960.0	0.0	0.0	ļ	2240.0	0.0	0.0	2520.0	74.9	76.2		
29	2030.0	0.0	0.0		2320.0	0.0		2610.0	72.6	73.9		
30	2100.0	0.0	0.0	 	2400.0 2480.0	0.0		2700.0 2790.0	71.4 0.0	72.7		
	2170.0 2240.0	•		,	2560.0			2880.0		0.0 0.0		
	2310.0		•		2640.0		: :	2970.0	:	:		
	2310.0		1	-	2720.0			3060.0	•	: : :		
	12450.0		1	•	2800.0			3150.0	-	: :		
•	1 2520.0	•	:	•	2880.0			3240.0	7	: :		
•	2590.0	•	1		2960.0			3330.0	•	:		
•	2660.0	•	1	: :	3040.0			3420.0	•	: :		
•	2730.0	·-	•		:	3510.0	:	!				
•	12800.0	•	•	•	3200.0			3600.0		•		
•	++	-+	·	+-			·+	+	+	++		
+								+				
	OASPL	107.5					104.3			115.7		
+												

F - FREQUENCY HZ

SPL - SOUND PRESSURE LEVEL DB RE 2E-5 PA

MICROPHONE: MP 1 (PITCH ANGLE: 21.6 DEG)

	•	DATA-POINT / RUN											
+	- +-	HC	-1 /	39 +		-	-2 /				<u></u>	 	
HN	-	F	SPL	SPLA		•	SPL	SPLA			SPL	SPLA	
•	i	•	105.6	•	į		114.7	•	į				
	1	:	97.6	84.2	-	:	115.8		ļ			ļ	
3	•	•	105.4	96.8	ļ		:	104.1					
4	•		104.9	98.3	ļ	:	111.9	_					
5	•	:	100.7	95.9	!	•	•	107.0					
6		:	94.5	91.3	ļ	:	•	104.8	H			ļ	
7	•		94.2	91.0	ļ	•	•	106.3					
8	:	640.0	83.2	86.3	ļ	•	•	107.4	! !				
9	- {	:	86.7	85.9	1	•	•	103.2				<u> </u>	
10	:	800.0	84.8	84.0	!	•	•	104.5		<u> </u>			
11	ļ		84.4	83.6	!	•		103.2	 		İ		
12		960.0	78.2	78.2	•	1080.0	99.4	99.4	 -			[
13		1040.0	0.0	0.0	•	1170.0	95.5	•	Н				
14	•	1120.0	0.0	0.0 0.0	- :	1260.0	97.2 93.8	ì				, !	
15		1200.0 1280.0	0.0		- :	1350.0		!				' ;	
16 17	•	:	0.0 0.0	0.0 0.0		1440.0 1530.0	88.1	89.1 94.7	11		! !		
1 18		1360.0 1440.0	0.0	0.0	•	1620.0	93.7 89.4	90.4			 	1	
1 19	- 1	1520.0	0.0	0.0	- 1	1710.0	82.5	83.5				1	
20		1600.0	0.0	0.0	- : :	1800.0	85.6	:	 		 	1	
21	- 1	1680.0	0.0	0.0	- :	1890.0	83.3	:	() 			!	
22		1760.0	0.0	0.0	•	1980.0	0.0		 	i i	, i	- 1	
23		1840.0		0.0		2070.0	0.0	0.0	! (1	
24	- :	1920.0		0.0		2160.0	0.0		ij	ľ	i	j	
25		2000.0		0.0	- : :	2250.0	0.0			i		1	
26	- :	2080.0	0.0	0.0	- :	2340.0		1	ij		i	j	
27	- 1	2160.0	0.0	0.0	- : :	2430.0	0.0		ij	ì	ì	1	
28		2240.0	0.0	0.0		2520.0	0.0		ij	ì	į	i	
29		2320.0	0.0	0.0		2610.0	0.0			i		i	
30		2400.0	0.0	0.0		2700.0	0.0		Ϊ	i	į	į	
•		2480.0	0.0		- : :	2790.0	0.0		ij	ì	i	ì	
		2560.0	0.0			2880.0				i	i	i	
		2640.0				2970.0			: :		j	i	
•		2720.0				3060.0					į	i	
•		2800.0				3150.0			ij		į	ì	
•		2880.0				3240.0	,		ij		į	į	
37		2960.0	0.0	0.0	П	3330.0			П	j	j	į	
38	11	3040.0	0.0	0.0	П	3420.0	0.0	0.0	1		į	į	
•		3120.0				3510.0					İ	İ	
40	40 3200.0 0.0 0.0 3600.0 0.0 0.0												
+	-+4		-						++	+	+	+	
+											+	+	
1		ASPL					121.5				1	1	
+					++				++	+	+	+	

- FREQUENCY HZ

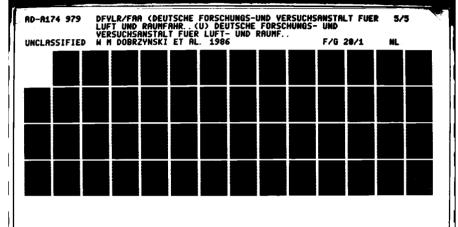
SPL - SOUND PRESSURE LEVEL DB RE 2E-5 PA SPLA - A-WEIGHTED SOUND PRESSURE LEVEL DBA RE 2E-5 PA

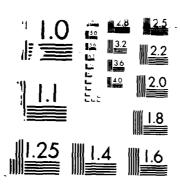
MICROPHONE: MP 2 (PITCH ANGLE: 21.6 DEG)

	DATA-POINT / RUN													
	į į				DATA-	POINT /	RUN				<u> </u>			
+	j JC	-1 /	193 +	1	JC:	-2 /	194 +			+	i ++			
HN	F	SPL	SPLA	į	F	SPL	SPLA	1	F	SPL	SPLA			
1	80.C	107.3	84.8	į	90.0	113.1	94.0			· 	· · · · · · · · · · · · · · · · · · ·			
2	160.0	107.0	93.6	Į	180.0	•	108.9	1		! !	1			
3	240.0	105.0	96.4	1	270.0	:	102.9	1		<u> </u>	ļ			
4	320.0	103.8	97.2	1	360.0	114.4	109.6	1		!	Į			
5		102.7	97.9	ļ			1110.1	!		!	. !			
: _	: :	101.4	98.2	ļ	<u> </u>	:	110.3	ļ		!!!	' !			
7	560.0	99.3	96.1	ļ	<u>:</u>	•	1110.8	ļ]]	!			
8	640.0	96.3	94.4	ļ	720.0	:	108.3	1			į			
9	720.0	91.8	91.0	-	810.0	:	109.2	1			!			
10	800.0	91.0	90.2	ļ	900.0	109.7	109.7	ļ			ļ			
11	880.0	89.5	88.7	!	990.0	106.6	106.6	!						
1 12	960.0	85.8	85.8	ļ	1080.0	105.9	105.9	ļ		! !	!			
13	1040.0	83.8	83.8		1170.0	104.6	105.2	ł			ļ			
14	1120.0	77.4	77.4	1	1260.0	•	103.5	!		 	į,			
15	1200.0	78.1	78.7	1	1350.0	•	103.4	1		j j]			
16	1280.0	75.0	75.6	1	1440.0	•	100.0	1		1 1 1 1	}			
17	1360.0	72.4	73.0	•	1530.0	98.0	99.0	ŀ		(ļ			
	1440.0 1520.0	67.5	68.5	•	1620.0	96.9	97.9	1		[! !			
*	11520.0	0.0	0.0	•	1710.0	94.4	95.4	1		! !	· ·			
•	11680.0	0.0	0.0	:	1800.0 1890.0	93.7 90.0	94.9 91.2	1		 	1			
-	1760.0	0.0	0.0		1980.0	89.5	90.7	ŀ			į			
:	11840.0	0.0	0.0	1	2070.0	87.0	88.2	1			1			
•	1920.0	0.0	0.0	l	2160.0	84.3	85.5	1) 	1			
1	[2000.0	0.0	0.0		2250.0	82.1	83.4	i			i			
:	2080.0	0.0	0.0	i	2340.0	81.7	83.0	j		i	ł			
•	2160.0	0.0	0.0	i	2430.0	80.9	82.2	i		i	j			
•	2240.0	0.0	0.0	i	2520.0	78.2	79.5	İ		i	i			
•	[2320.0	0.0	0.0	'n	2610.0	74.8	76.1	ί		į	i			
30	2400.0	0.0	0.0	i	2700.0	76.8	78.1	i		i	į			
	2480.0	0.0	0.0	ì	2790.0	76.2	77.5	i		i	j			
	2560.0	•	•	i.	2880.0			Ĺ		ì	į			
-	2640.0	-			2970.0			:		i i	į			
-	2720.0				3060.0				Ì	j	į			
•	::	0.0			3150.0		•		İ	j	į			
•	12880.0	0.0			3240.0		0.0	Ì		İ	İ			
•	[2960.0	0.0			3330.0		0.0	1		l	ĺ			
•	13040.0	0.0			3420.0		0.0	1		į	ĺ			
39	3120.0	0.0	0.0		3510.0	0.0	0.0	1	į					
40	13200.0	0.0	0.0		3600.0	0.0	0.0				1			
+	++	=			}			+-		++	+			
+		•	•	•	+					 	·+ ·			
ļ	OASPL	1113.2	105.5	ļ		124.2	1119.8	1		 				
+		+	+											

F - FREQUENCY HZ

SPL - SOUND PRESSURE LEVEL DB RE 2E-5 PA





PROPERTY OF NOTE OF HAME

MICROPHONE: MP 2 (PITCH ANGLE: 21.6 DEG)

	DATA-POINT / RUN											
+	 -	JC-	-1 /		 -	-	-2 /				+	
HN	11	F	SPL	SPLA	 	F	SPL	SPLA		F	SPL	SPLA
1 1	[[107.3	· .		•	1113.1					
1 2	11		107.0	93.6			<u>:</u>	:			! ! ! !	
] 3	 1		105.0	96.4 97.2		360.0	•	102.9 109.6			i i	l
4	11		103.8 102.7	97.2	!	450.0	•	1103.0	1		<u>'</u>	į į
6	11		101.4	98.2	! !	540.0	:	110.1	1		1	1
1 7	! ! ! !		99.3	96.1			112.7				i 	i
, , 8	ï	640.0	96.3				•	108.3	i		i	ľ
: -	lì	720.0	91.8				•	109.2	į		j j	j
	ij	800.0	91.0		i			109.7	i		i	i
	İİ	880.0	89.5	: :	İ		1	106.6	i		İ	i
12	ij	960.0	85.8	: :		1080.0	105.9	105.9	İ		İ	į
13	П	1040.0	83.8	83.8		1170.0	104.6	105.2			1 1	1
1 14	11	1120.0	77.4	77.4		1260.0	102.9	103.5	1	1		Į
•		1200.0	78.1	78.7		1350.0	•	103.4	-			
•	: :	1280.0	75.0			1440.0	•	100.0	1			
· .	: :	1360.0	72.4	•		1530.0	98.0	99.0	ļ]	1
18	: :	1440.0	67.5	:		1620.0	96.9	97.9	١		!	ļ
•	• •	1520.0	0.0	•		1710.0	94.4	95.4	1		i i	!
· .	: :	1600.0	0.0			1800.0	93.7	94.9	ŀ		 	i
•	: :	1680.0 1760.0	0.0			1890.0 1980.0	90.0 89.5	91.2 90.7	1		! ! ! !	!
•	: :	1840.0	0.0			2070.0	87.0	88.2	1) 	,
	: :	1920.0	0.0			2160.0	84.3	85.5	i		j	;
•	: :	2000.0	0.0			2250.0	82.1	83.4	i	1		i
•		2080.0	0.0	: :		2340.0	81.7	83.0	i			i
•		2160.0	0.0	: :		2430.0	80.9	82.2	j		j	į
28	11:	2240.0	0.0	0.0	ij	2520.0	78.2	79.5	İ			Ì
29	11:	2320.0	0.0	0.0		2610.0	74.8	76.1	İ			ĺ
•		2400.0	0.0			2700.0	76.8	78.1	-	1		ļ
•	• •	2480.0	0.0			2790.0	76.2	77.5	1			ļ
•		2560.0				2880.0						ļ
•		2640.0				2970.0	•					ļ
•		2720.0		:		3060.0	•		:	į	[ĺ
•		2800.0		•	•	3150.0	•	: :	- :			ļ
•	: :	2880.0		:		3240.0	•	;	:	1	 	ļ
•		2960.0 3040.0				3330.0 3420.0	•	0.0 0.0	•		;	{
•		3120.0				3510.0			•	i	 	! !
		3200.0				3600.0				ļ	, '	i
							•				}	+
+				+			+	++	+		} +	+
1 0)AC											1
+		+		+	-+		·	++	+		+	+

F - FREQUENCY HZ

ESSEL DESCRIPTION DESCRIPTION PROFESSEL PROFESSEL RESERVANCE SUPPLIES FRANCISCO PROFESSE SUPPLIES DESCRIPTION DE PROFESSE DE SUPPLIES DE PROFESSE DE SUPPLIES DE PROFESSE DE P

SPL - SOUND PRESSURE LEVEL DB RE 2E-5 PA

MICROPHONE: MP 3 (PITCH ANGLE: 21.6 DEG)

		++												
					DATA-	POINT /	RUN			ŧ				
		ì				· ···- /				i				
		j JC	-1 /	193	JC	-2 /	194	11		ļ				
+	+	+	+	+	 	+	+	 	SPL	SPLA				
1	HN	F	SPL	SPLA	F	SPL	SPLA	F +	}	SPLA +				
ì	1	80.0	107.2	84.7	90.0	112.9	93.8	11		i				
i	2	•	107.1	93.7	11 180.0	113.9	103.0	i i	i i	Ì				
i	- 3		106.9	98.3	270.0	113.3	104.7	i i	i	İ				
i	4		104.2	97.6	• •		109.6	İİ	j i					
i	5	•	105.6	100.8	450.0	I	112.7	ii	<u>.</u>	j				
į	6	:	102.2	99.0	540.0	112.8	109.6	İİ	ĺ					
j	7	560.0	98.2	95.0	630.0	113.0	111.1	ij	j	1				
Ì	8	640.0	97.6	95.7	720.0	113.5	112.7							
Ì	9	720.0	96.9	96.1	810.0	112.3	111.5	11						
Ì	10	800.0	94.9	94.1	900.0	111.9	111.9	11	ĺ :					
-	11	880.0	93.0	92.2	990.0	111.3	111.3	11	1					
-	12	960.0	90.2	90.2	1080.0	109.2	109.2							
-	13	1040.0	88.2	88.2	1170.0	106.9	107.5	11		1				
١	14	1120.0	84.3	84.3	1260.0	108.1	108.7	11)	1				
1	15	1200.0	81.5	82.1	1350.0	105.7	106.3		!					
-	16	1280.0	81.7	82.3	1440.0	104.3	105.3			1				
	17	1360.0	77.4	78.0	1530.0	102.7	103.7							
İ	18	1440.0	75.3	76.3	1620.0	102.5	103.5			ļ				
	19	1520.0	73.3	74.3	1710.0	•	102.1			1				
1	:	1600.0	71.0	72.0	1800.0	97.3	98.5			1				
-	:	1680.0	0.0	0.0	1890.0	96.3	97.5		[ļ				
!		1760.0	0.0	0.0	1980.0	96.3	97.5			ļ				
-		11840.0	0.0	0.0	2070.0	94.4	95.6			ļ				
	24	1920.0	0.0	0.0	2160.0	91.1	92.3			į				
-	25	2000.0	0.0	0.0	2250.0	90.9	92.2	 		1				
ļ	26	[2080.0	0.0	0.0	[[2340.0	89.0	90.3	 		<u> </u>				
ļ	27	2160.0	0.0	0.0	2430.0	85.9	87.2			ļ				
ļ	28	2240.0	0.0	0.0	2520.0	85.4	86.7	 1		1				
	•	2320.0	0.0	0.0	2610.0	84.6	85.9	 	i	ļ				
-	30	2400.0	0.0	0.0	2700.0 2790.0	83.4	84.7	{ 1	!	1				
ł	31	2480.0	0.0	0.0		82.1 82.1	83.4	 		!				
1		2560.0			2880.0 2970.0	80.7		i i		!				
		2640.0 2720.0		:		80.7		 		1				
1	•	2800.0	:		3150.0	79.3				i				
1		2880.0	0.0	:	3240.0	76.7				;				
¦		2960.0	0.0		3330.0	76.7	77.9		·	i				
i		3040.0		•		77.0	:		' '	i				
1	•	3120.0	•		•	73.1	•	ì		i				
j		3200.0			3600.0				İ	i				
+	+	+	•	•		, 	+							
+			+	+	++	+	++	+	+	+				
1	0			107.2			121.9			1				
+.								+	-					

- FREQUENCY HZ

SPL - SOUND PRESSURE LEVEL DB RE 2E-5 PA SPLA - A-WEIGHTED SOUND PRESSURE LEVEL DBA RE 2E-5 PA

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MICROPHONE: MP 2 (PITCH ANGLE: 21.6 DEG)

			DATA-POINT / RUN											
+-		HC:	-1 /	39 +	1	НС	-2 / +	40 +			 	; 		
	HN	F	SPL	SPLA		F	SPL	SPLA		F	SPL	SPLA		
į	1		108.8	86.3	į	•	116.0	96.9						
!			109.7	96.3	ļ	•	•	107.6	!!			1		
ļ		•	•	100.2	ļ	:	!	110.5	!!		ļ			
!			:	100.2	ļ	360.0	•	109.8	!!] 			
!		•	•	1100.7	ŀ	•	•	1115.7	Н		 			
!	_ i		•	102.9	ļ	540.0	•	1116.0	!!] 			
ŀ			:	100.2	1	-	•	1115.0	11] 1	1		
ł	8 9		100.4	98.5	ŀ	720.0		114.8 115.9	!!	l] 			
-		720.0 800.0	97.5 97.9	96.7 97.1	1	810.0 900.0		116.6	11] 	1		
•	10 11	880.0	96.5	95.7	1	1	:	1113.8			! !	; ! !		
:	12	960.0	92.6	92.6	1	·	·	1112.5	Н		! 			
•	13	1040.0	89.6	89.6	l	1170.0		112.9	ij		' 	i		
•	14	1120.0	87.8	87.8	i	1260.0	•	112.5	H			i		
	15	1200.0	85.2	85.8	i	1	:	110.0	ii		i	i		
:		1280.0	83.4	84.0	•		-	109.8	ii			į		
:		1360.0	79.5	80.1	•	•	•	108.6	ii		i	i		
:		1440.0	76.1	77.1	•	1620.0	:	107.7	ii		i	i		
•		11520.0	76.6	77.6	:	1710.0		105.8	ij		į	į		
i		1600.0	72.8	73.8	İ	1800.0	<u>.</u>	103.6	ii		İ	į		
ĺ	21 j	1680.0	66.7	67.7	İ	1890.0	102.5	103.7	Ħ		İ	İ		
İ	22	1760.0	0.0	0.0	Ĺ	1980.0	102.3	103.5	Ħ		İ	j		
ĺ	23	1840.0	0.0	0.0	1	2070.0	99.9	101.1	11			1		
1	24	1920.0	0.0	0.0	1	2160.0	98.5	99.7	11			1		
1	25	2000.0	0.0	0.0	1	2250.0	98.6	99.9	11					
1	26	2080.0	0.0	0.0	1	2340.0	98.1	99.4	11			1		
1		2160.0	0.0	0.0	1	2430.0	97.1	98.4				1		
	28	2240.0	0.0	0.0	-	2520.0	96.3	97.6	Ц			1		
•		2320.0	0.0	0.0	:	2610.0	98.0	99.3	ij		}			
:	•	2400.0	0.0	0.0	!	2700.0	96.4	97.7	! !			ļ		
:		2480.0	0.0	0.0	!	2790.0	93.2	94.5	!!			ł		
:		2560.0	0.0	0.0	•	2880.0	94.0	95.2	Н					
•	33	•	0.0	•	•	2970.0	94.5	95.7	H			ļ		
:	34	2720.0	0.0	0.0	:	3060.0	94.4	95.6	! !			ļ		
:	:	12800.0	0.0	0.0		3150.0	89.6	•	H			[
•	36 37	2880.0	0.0	0.0 0.0	:	3240.0	90.7 92.2	91.9						
•	37 38	12960.0	0.0 0.0		- 1	3330.0 3420.0	89.8	93.4				 		
:	38 39	3040.0 3120.0	0.0	•	•	•	86.9	•	11		· • • • • • • • • • • • • • • • • • • •	!		
•		3120.0	•		•	3600.0	•	•] 	 		
+-	+	+	,	•	-		•	, 0/. . +	ı 1 1 1		}	ا +		
+-			+	+	+	+	+	+	++		++	·+		
ı	C	ASPL	116.3	109.6	1	1	128.3	125.8	[[i i	1		
+-			+	+	+-	·	+	+	++		-	+		

F - FREQUENCY HZ

SPL - SOUND PRESSURE LEVEL DB RE 2E-5 PA

MICROPHONE: MP 3 (PITCH ANGLE: 21.6 DEG)

		+ !			-	DATA-	POINT /	RUN				
+		 HC	-1 /	39 +	1	HC	-2 /	40			.	
1	HN		SPL	SPLA	<u>.</u>	, F	SPL	SPLA		F	SPL	SPLA
	1	80.0	109.9	87.4	1	90.0	117.2	98.1	 - .			
1	2		108.9	95.5	ļ			107.2				
١		240.0	•	1100.4	1		117.8	109.2	1			
ļ		320.0	108.2	:	ļ	·	1	114.9	!		<u> </u>	
ļ	5	400.0	•	104.2	ļ	450.0	: .	116.0	!		!	ŀ
1	6	480.0	•	103.2	ļ	540.0	1117.9	114.7			!	
1		560.0		101.2		630.0	1117.9	116.0				Ī
ŀ	8	640.0	:	101.7	ŀ	720.0	1119.3	1118.5	!		1 1	. !
ı	9 10	720.0 800.0	102.6 100.0	101.8 99.2	1	810.0 900.0	117.6 117.6	116.8 117.6	1		; 	1
1	11	880.0	99.4	98.6	i	990.0		117.6 117.5			i i	
ĺ	12	960.0	97.7	1	1	1	:	117.5	l I		((! !
ï		1040.0	95.0	•	•	1170.0	114.6		i		. ! 	ľ
i		1120.0	91.4	•	•	1260.0	116.5		i		i i	i
i		1200.0	91.3	-	•		:	114.2	i		i i	i
Ì	ló	1280.0	89.9	90.5	İ		112.4		i		i i	į
1	17	1360.0	84.6	85.2	ĺ	1530.0	112.8	113.8	İ		İ	į
	18	1440.0	83.9	84.9		1620.0	112.4	113.4			1	1
Ţ		1520.0	81.7		-	1710.0	108.5	109.5			[[1
}		1600.0	81.3				:	108.0	}		}	1
!		1680.0	75.2		:		:	108.2			[ļ
Ì		11760.0	74.0	75.0	!			106.5	!		!	!
1		11840.0	71.5	72.7			:	1103.8	ļ			ļ
!		1920.0	68.7 67.7	69.9 68.9	•			105.4	!			ļ
1		2080.0	59.5					105.7 103.3	1] 1
1		2160.0	0.0		: :			105.1				
i		2240.0	0.0	0.0	: :			106.0	i			
i		2320.0	0.0	0.0	: :			105.1	i			1
İ		2400.0	0.0	0.0				103.8	i	ĺ	į	ľ
1		2480.0	j 0.0 j	0.0	H	2790.0	102.8	104.1	İ	İ	İ	i
1	32	2560.0	0.0	0.0		2880.0		103.4	ĺ	i	İ	j
ł		2640.0	0.0	0.0	П	2970.0	101.2	102.4		Ì	ĺ	į
1		2720.0	0.0	0.0	H	3060.0	98.2	99.4		ĺ	1	ĺ
1		2800.0	0.0			3150.0					1	
		2880.0				3240.0			ļ	l	ļ	1
ļ		2960.0				3330.0			•	ļ	ļ	ļ
1		3040.0				3420.0					ļ	ļ
1		3120.0				3510.0			•	ļ	ļ	!
1		3200.0	•			3600.0			 	 	\ 	
· + -	·							•	 	+	 +	
1	0	ASPL						128.2		Ì	Ì	i
+-									+	+		

F - FREQUENCY HZ

SPL - SOUND PRESSURE LEVEL DB RE 2E-5 PA

SPLA - A-WEIGHTED SOUND PRESSURE LEVEL DBA RE 2E-5 PA

MICROPHONE: MP 4 (PITCH ANGLE: 21.6 DEG)

+-+-		HC		39	ı		DATA-POINT / RUN											
+-	1) F	:	+	<u>.</u>	HC:	-2 /	40	 +	+	, 							
			SPL	SPLA	į	F	J SPL	SPLA	F	SPL	SPLA							
ſ	2	•	110.6	88.1	1	•	118.5	99.4	İ	j								
•	•	1	108.6	95.2	ı	•	:	105.8	!	! !								
ļ		-	•	102.3	ļ	•	•	111.6	<u> </u>	!								
ļ		-	•	103.4	ļ	•	:	114.4	!	!]							
ļ		i .	1	103.8	ļ	•	•	116.4	!									
ļ		<u> </u>	:	1102.7	ļ	•	:	116.4	! !	!								
ļ	7	560.0	•	102.7	!	•	119.5	117.6	{ 	!!!!								
1	8 9	640.0 720.0	104.5 101.6	102.6 100.8	1	720.0 810.0	118.7 118.7	117.9 117.9	{] 	 							
í	10	800.0	101.1	100.3		900.0	118.7	1118.7	! i	, , 	' ! 							
i	11	880.0	99.5	98.7		990.0	117.1	1117.1	! 	! 	ļ							
i	12	960.0	97.0	97.0	i	1080.0	117.9	117.9	<u>'</u>	; i	i							
•	13	1040.0	96.4	96.4	i	1170.0		117.0	İ	i i	i							
i	14 j	1120.0	95.2	95.2	i	•	•	115.4	į	j j	j							
ĺ	15	1200.0	90.5	91.1		1350.0	114.4	115.0		İ	į							
1	16	1280.0	89.1	89.7		1440.0	113.6	114.6			ĺ							
	17	1360.0	88.1	88.7		1530.0	111.4	112.4	[ſ							
-	18	1440.0	85.2	86.2		1620.0	109.9	110.9			1							
•		1520.0	81.3	82.3	- :		•	111.3		1	1							
•	:	1600.0	80.7	81.7		1800.0		109.5			!							
•		1680.0	78.2	79.2		1890.0		106.7			ļ							
•	22	1760.0	72.4	73.4		1980.0	-	107.9		ļ	ļ.							
•	•	1840.0	72.0	73.2		2070.0	•	106.3			ļ							
•		1920.0	70.2	71.4		2160.0	•	1104.4		!	!							
•	25 26	2000.0	66.3	67.5	11		•	106.1		 	[
•		2080.0	0.0	0.0	Ш		:	104.7 104.9		 	!							
•		2240.0	0.0	0.0			•	105.7		! 	 							
		2320.0	0.0		: :			104.5		, i								
•		2400.0	0.0	0.0	: :		:	103.5		i	i							
i		2480.0	0.0	0.0	•			104.6		İ	i							
İ	32	2560.0	0.0	0.0	Ħ	2880.0	102.1	103.3		ĺ	İ							
1	33	2640.0	0.0	0.0	Ħ	2970.0	100.3	101.5		i i	ĺ							
1	34	2720.0	0.0	0.0	11	3060.0	100.9	102.1		1	ĺ							
•	•	2800.0	0.0	•		3150.0		102.1	, [
•		2880.0	0.0		: :	3240.0		100.5		I	- 1							
•		2960.0	0.0	•		3330.0				!	ļ							
•		3040.0	0.0	•		3420.0				. !	ļ							
•		3120.0		•		3510.0				ļ	ļ							
1 '		3200.0 +	0.0	-	•	3600.0	•	97.6	 									
+-	+ 			•				•			+ 							
	0	ASPL	118.1	112.3	ij	j	130.5	128.8			!							

F - FREQUENCY HZ

SPL - SOUND PRESSURE LEVEL DB RE 2E-5 PA

MICROPHONE: MP 5 (PITCH ANGLE: 21.6 DEG)

	4					DATA-	POINT /	RUN				.
+	 	нс	-1 /	39		нс	-2 /	40	 -			
HN		F	SPL	SPLA		F	SPL	SPLA		F	SPL	SPLA
1	il	80.0	1111.1	88.6		90.0	119.3	100.2	i		, 	
2	11	160.0	108.0	94.6		180.0	116.9	106.0	ŀ			
3		240.0	106.8	98.2	-	270.0	119.9	111.3	ı			
4	\parallel	320.0	111.4	104.8		360.0	120.7	115.9	1			
5	11	400.0	105.8	101.0	ļ	450.0	114.9	111.7	1		!	
6		480.0	102.3	99.1		540.0	118.6	115.4	1			
7		560.0	104.8	101.6	١	630.0	118.7	116.8	1			'
8		640.0	103.3	101.4		720.0	116.4	115.6	-			
9	11	720.0	98.3	97.5		•	•	114.9				!
10		800.0	98.6	97.8	ŀ	•		116.2	ı			
111	11	880.0	95.4	94.6		•	•	115.8				
12	11	960.0	95.8	•	l	•	•	1111.3	ļ			
13		1040.0	92.7	•	•	1170.0		114.6	ļ			ļ
14		1120.0	88.9	:	•	•	•	113.4	1			ļ
15	- : :	1200.0	89.8	:	:	•	:	109.3	ļ			ļ
16	- 1 1	1280.0	87.0	:	1	:	:	111.9	ļ			ļ
17	- : :	1360.0	84.2	•	•	1530.0	•	107.9	ļ			ļ
18		1440.0	80.5	:	:	1620.0		107.1	ļ		ĺ	
19	- 1	1520.0	80.7		:	1710.0	1	107.8	ļ			ļ
20	- 1 1	1600.0	76.6	:	:	•	•	104.1	!	į		ļ
21	- 1	1680.0	73.1	:	:	•	1	103.6	}	Ì]	
22	- 1	1760.0	0.0	•	•	•	:	104.2	ļ			ļ
23		1840.0	0.0	0.0		2070.0	:	1100.9	ļ			ļ
24	- : :	1920.0	0.0	0.0	•	2160.0	•	102.2	!		 	
25		2000.0	0.0	•	:	2250.0	1	100.9	ļ			ļ
26	- : :	2080.0	0.0	:	:	2340.0	97.6	98.9	1]
27		2160.0	0.0	•	:	!	•	101.5	!		·]
28		2240.0	0.0	:	:	2520.0	96.6	97.9	ł] 	!
29		2320.0	0.0			2610.0	95.9	97.2	1	i		į
30		2400.0	0.0	•	•	2700.0	99.7 94.5	101.0	-		ı J	ļ
31		2480.0	0.0		•	2790.0		95.8	+			ļ
•	- 1	2560.0				2880.0 2970.0		96.7		!	1	
•		2640.0 2720.0				3060.0				i	} 	
•		2800.0		•	•	3150.0	•		1	ļ	l I	i
•	- : :	2880.0				3240.0			1	!	l I	1
•		2960.0				3330.0				 	I	
•	- 1 1	3040.0		•	•	3420.0	•			 	l I	l I
•	- : :	3120.0		•		3510.0	-		•	l I	l i	l I
1		3200.0		•	•	3600.0	•			¦ i	1]
•				•		3000.0 			+	۱ +	۱ +	ا +
+			·	+	+-		+	++	+		·+	·+
1	O.A	SPL	117.1	110.5			129.0	126.3	1	1	1	i
						, }					· +	, ++

F - FREQUENCY HZ

SPL - SOUND PRESSURE LEVEL DB RE 2E-5 PA

SOURCE PRODUCES BESSESSE BOOKSER PRODUCES BOOKSER BOOKSER BOOKSER

MICROPHONE: MP 6 (PITCH ANGLE: 21.6 DEG)

		+	DATA-POINT / RUN											
+	+	HC-	-1 /	39 +	HC	-2 /	40 +		+	 				
F	IN	F	SPL	SPLA		SPL	SPLA	F	SPL	SPLA				
į	1	80.0	:	•	90.0		78.0		!	j				
1	2	160.0 240.0	77.1 0.0	63.7 0.0	180.0 270.0	98.1 96.8	87.2 88.2		(
ļ	4	:	l 0.0		270.0 360.0	95.9	91.1		} }] 				
i	5		0.0	:	450.0	87.8	84.6)	: [1				
i	6		0.0	•	540.0	93.3	90.1	i	i	i				
i	7	560.0	0.0	0.0	630.0	90.2	88.3	i	i	i				
i	8	640.0	0.0	0.0	720.0	84.2	83.4	i i	i i	į				
i	9 j	720.0	0.0	0.0	810.0	89.9	89.1	ii	j i	i				
1	10	800.0	0.0	0.0	900.0	86.1	86.1	H		į				
1	11	880.0	0.0	0.0	990.0	80.6	80.6	H		ĺ				
1	12	960.0	0.0	0.0	1080.0	85.0	85.0							
1		1040.0	0.0	•	1170.0	81.1	81.7	11		ļ				
		1120.0	0.0	•	1260.0	76.5	77.1		!	Ì				
	:	1200.0	0.0		1350.0	77.9	78.5	Į Į	ļ	!				
	•	1280.0	0.0	Ξ .	11440.0	75.8	76.8			į				
		1360.0	0.0	:	1530.0	72.7	73.7			· ·				
		1440.0	0.0	1	11620.0	63.9 74.0	64.9 75.0		! ! ! '					
•		1520.0 1600.0	0.0	0.0	1710.0 1800.0	63.1	73.0)) 	i 1	1				
	•	1680.0	0.0	:	1890.0	65.1	66.3	.						
•		1760.0	0.0		1980.0	67.4	68.6			i				
		1840.0	0.0		2070.0	57.3	58.5	i	i	i				
:		1920.0	0.0	:	2160.0	0.0	0.0	1	i	i				
	:	2000.0	0.0	•	2250.0	0.0	i 0.0 i	Ì	İ	į				
2	26 j	2080.0	0.0	:	2340.0	0.0	0.0 j	i i	İ	j				
2	27 j	2160.0	0.0	0.0	2430.0	0.0	0.0	i		ĺ				
1 2	28	2240.0	0.0	0.0	[]2520.0	0.0	0.0	 		ļ				
2	29	2320.0	0.0	0.0	2610.0	0.0	0.0	1		j				
	•	2400.0	0.0		2700.0	0.0	0.0	ļ	ļ	ļ				
•	•	2480.0	0.0	0.0	2790.0	0.0	0.0	!		!				
•	•	2560.0	0.0		2880.0	0.0	0.0			į				
		2640.0			2970.0				}]				
		2720.0			3060.0			•] 	j i				
•	•	2800.0 2880.0			3150.0 3240.0					j				
•		2960.0			3330.0									
•	•	3040.0			3420.0		0.0		i	j				
		3120.0			3510.0	-	•	i	i	i				
		3200.0			3600.0				j j	j				
•		+		-	+			÷	-					
+					•		•	+		+				
1					1									
+					+	-	h	+		+				

- FREQUENCY HZ

SPL - SOUND PRESSURE LEVEL DB RE 2E-5 PA
SPLA - A-WEIGHTED SOUND PRESSURE LEVEL DBA RE 2E-5 PA

(PITCH ANGLE: 21.6 DEG) MICROPHONE: MP 7

		DATA-POINT / RUN										
+	- + -	HC	-1 /		•	НС	-2 /				+ -	
HN	į	F	SPL	SPLA	1	, F +		SPLA	1		SPL	SPLA
1	1	80.0	103.8				115.5	•	•		1	
2	1		0.0	•	•	•	•	0.0	1			
3		240.0	0.0	•	•	270.0	•	0.0	ļ			
•			:	:		360.0						
5				:	:	450.0	:	:	•			
6	- :		!	•	ļ	:	I	0.0	•]	
7			1	•	ļ	•	•	0.0	•			
8	ļ		:		ļ	:	1	0.0	•			
1 10	1.	•	:		1	•	:	0.0	•			i
10			•		•	900.0		0.0	•			
11		880.0			•	990.0	:	0.0	•			1
12		960.0 1040.0			•	1080.0 1170.0	•					
1 14	•	1120.0	•			1260.0			•			
1.5		1200.0			•	1350.0	•		•			
•	•	1280.0	•		1	1440.0			:			
	•	1360.0			•	1530.0			l			
18		1440.0			:	1620.0		0.0	•			
1 19		1520.0			:	1710.0		0.0	ì			
20		1600.0	: :			1800.0		0.0	i			
21	- :	1680.0				1890.0	:	:	í			
22		1760.0	•		•	1980.0	:		i		i	
23	- 1	1840.0	:		•	2070.0	:	0.0	ĺ		İ	
24		1920.0	0.0	0.0	İ	2160.0	0.0	0.0	İ		ĺ	
25		2000.0	0.0	0.0	ĺ	2250.0	0.0	0.0	ĺ			
26	11	2080.0	0.0	0.0	ĺ	2340.0	0.0	0.0	1			
27		2160.0	0.0	0.0	١	2430.0	0.0	0.0	1		. <u>}</u>	
28		2240.0	0.0	0.0	l	2520.0	0.0	0.0	ĺ			
		2320.0		0.0		2610.0	0.0	0.0		İ	1	
30	11	2400.0				2700.0	0.0		1			
31	, ,	2480.0	0.0			2790.0	0.0		ļ			
	-	2560.0				2880.0				l	ļ	
•		2640.0				2970.0						
		2720.0			7	3060.0		:	•	Ì		
•		2800.0			7	3150.0						
		2880.0			•	3240.0			:	ļ		
•	• •	2960.0				3330.0 3430.0			:			
•		3040.0			:	3420.0 3510.0			:	ļ		
•		3120.0			•	3510.0 3600.0			:	ļ	1	
		3200.0				0.000.0			+	 	 +	· • • • •
+								` ++	+.		· · · · · · · · · · · · · · · · · · ·	
ļ	O.A	SPL					115.5	96.4	ı	!	i	
						 		,	•	۱ +	, ++	

F - FREQUENCY HZ
SPL - SOUND PRESSURE LEVEL DB RE 2E-5 PA
SPLA - A-WEIGHTED SOUND PRESSURE LEVEL DBA RE 2E-5 PA

SOUTH STATES OF CHARACTER SOUTHWAY WILLIAMS WAS AND THE SOUTHWAY

MICROPHONE: MP 9 (PITCH ANGLE: 21.6 DEG)

	ĺ	DATA-POINT / RUN											
+		HC-	-1 /		-	HC-	-2 /	40		 	+		
HN		F	SPL	SPLA	l	} F		SPLA		F	SPL	SPLA	
1		80.0	37.2	14.7	ĺ	90.0	34.0		•	•			
2	- 1		:	•	•	•	•	:		•			
				•		270.0		•	: :				
:			:		:	360.0		•	7				
5	- 1			:	:	450.0		:	: :				
	1		:	•	:	540.0			: :				
7						630.0				•			
8				•					: :				
•				•	•	810.0 900.0	0.0		: :		 		
11		800.0 880.0			•	990.0		•					
•		960.0			:	1080.0	0.0		: :				
•		1040.0	•	•	•	1170.0			: :				
	- : :	1120.0			-	1260.0							
•	- : :	1200.0		4	:	1350.0							
-		1280.0			:	1440.0			: :				
:		1360.0			:	1530.0			: :		i		
•		1440.0			:	1620.0	_ :	0.0	ij				
19	П	1520.0	0.0		•	1710.0		0.0	ij				
1		1600.0			:	1800.0		0.0	ij		ĺ		
21		1680.0	0.0	0.0	l	1890.0	0.0	0.0	i I				
22	Π	1760.0	0.0	0.0	l	1980.0	0.0	0.0	11				
23	$ \cdot $	1840.0	0.0	0.0		2070.0	0.0	0.0	11				
•		1920.0			•	2160.0			11				
•		2000.0			:	2250.0			1				
1	- 1	2080.0	_		:	2340.0							
•		2160.0			:	2430.0							
		2240.0				2520.0			[·			
		2320.0				2610.0				·			
•		2400.0	0.0		•	2700.0							
,		2480.0	0.0			2790.0							
•		2560.0 2640.0				2880.0 2970.0				•	 		
•		2720.0			: .	2970.0 3060.0			: :		 !		
-	- 1	2800.0			•	3150.0			: :		, 1		
•		2880.0				3240.0					1 		
•		2960.0			•	3330.0					i İ		
:		3040.0				3420.0					j		
•		3120.0				3510.0			•		Ï		
•		3200.0	•			3600.0			: :		j		
•					-	+			++				
+						+							

F - FREQUENCY HZ

SPL - SOUND PRESSURE LEVEL DB RE 2E-5 PA

MICROPHONE: MP 1 (PITCH ANGLE: 20.7 DEG)

1		+	DATA-POINT / RUN											
HN F	+		IC-	-1 /			-2 /	•	•	-3 /	43 +			
2 140.0 97.7 81.6 160.0 109.6 96.2 180.0 116.9 106 3 210.0 95.0 84.1 240.0 105.3 96.7 270.0 112.0 101 4 280.0 90.3 81.7 320.0 101.9 95.3 360.0 112.5 100 5 350.0 86.9 80.3 400.0 100.5 95.7 450.0 110.6 101 6 1420.0 79.6 74.8 480.0 96.2 93.0 540.0 106.1 106.1 101 6 102 5 103	HN		F	SPL	•		SPL			SPL	SPLA			
3	•			•	•				•	•	93.9			
4 280.0 90.3 81.7 320.0 101.9 95.3 360.0 112.5 103.5 1350.0 86.9 80.3 400.0 100.5 95.7 450.0 110.6 100.5 6 420.0 79.6 74.8 480.0 96.2 93.0 540.0 108.3 103.5 7 490.0 75.8 72.6 560.0 91.8 88.6 630.0 107.2 103.5 103		- 1		•	•	· :	•			:	106.0			
5	1			•	•	· •	•	•	•	•	103.4			
6 420.0 79.6 74.8 480.0 96.2 93.0 540.0 108.3 109.5 7 490.0 75.8 72.6 560.0 91.8 88.6 630.0 107.2 109.5				•		, ,	•		•	•	107.7			
7	•			•	•	• •	•		•	•	107.4			
8	•			•	•		•			•	•			
9 630.0 0.0 0.0 720.0 88.5 87.7 810.0 104.6 103.0 10 10 1700.0 0.0 0.0 800.0 82.7 81.9 900.0 104.0 104.0 104.0 11 770.0 0.0 0.0 880.0 73.8 73.0 990.0 102.9 103.0 12 840.0 0.0 0.0 960.0 79.7 79.7 1080.0 100.3 100.1 13 910.0 0.0 0.0 1040.0 75.4 75.4 1170.0 95.7 96.1 14 980.0 0.0 0.0 1120.0 71.9 71.9 1260.0 96.6 97.1 15 1120.0 0.0 0.0 1280.0 63.3 63.9 1350.0 94.5 95.1 15 1120.0 0.0 0.0 1280.0 66.2 66.8 1530.0 94.5 95.1 16 1120.0 0.0 0.0 1280.0 66.2 66.8 1530.0 92.5 93.1 18 1260.0 0.0 0.0 1520.0 0.0 0.0 1710.0 83.6 84.2 18 1260.0 0.0 0.0 1680.0 0.0 0.0 1800.0 81.7 82.2 1240.0 0.0 0.0 1680.0 0.0 0.0 1890.0 0.0 0.0 2250.0 0.0 0.0 2250.0 0.0 0.0 2250.0 0.0 0.0 2250.0 0.0 0.0 2340.0 0.0 0.0 2480.0 0.0 0.0 2240.0 0.0 0.0 2270.0 0.0 0.0 3330.0 0.0 0.0 35 2250.0 0.0 0.0 2260.0 0.0 0.0 2270.0 0.0 0.0 35 2250.0 0.0 0.0 2260.0 0.0 0.0 2270.0 0.0 0.0 35 2250.0 0.0 0.0 2260.0 0.0 0.0 2270.0 0.0 0.0 2360.0 0.0 0.0 2370.0 0.0 0.0 2360.0 0.0 0.0 2370.0 0.0 0.0 2360.0 0.0 0.0 2370.0 0.0 0.0 2360.0 0.0 0.0 2370.0 0.0 0.0 2360.0 0.0 0.0 2370.0 0.0 0.0 2370.0 0.0 0.0 2370.0 0.0 0.0 2360.0 0.0 0.0 2370.0 0.0 0.0 2370.0 0.0 0.0 2370.0 0.0 0.0 2370.0 0.0 0.0 2370.0 0.0 0.0 2360.0 0.0 0.0 2370.0 0.0 0.0 2370.0 0.0 0.0 2370.0 0.0 0.0 2370.0 0.0 0.0 2370.0 0.0 0.0 2370.0 0.0 0.0 2370.0 0.0 0.0 2370.0 0.0 0.0 2370.0 0.0 0.0 2370.0 0.0 0.0				•	•		•		•	•	105.3			
10 700.0 0.0 0.0 800.0 82.7 81.9 900.0 104.0 104.0 104.1 11 1770.0 0.0 0.0 1880.0 73.8 73.0 960.0 102.9 103.1 12 1840.0 0.0 0.0 1040.0 79.7 79.7 1080.0 100.3 100.1 13 910.0 0.0 0.0 1120.0 75.4 75.4 1170.0 95.7 96.1 14 1980.0 0.0 0.0 1120.0 71.9 71.9 11260.0 96.6 97.1 15 11050.0 0.0 0.0 11200.0 63.3 63.9 11350.0 94.5 95.1 16 11120.0 0.0 0.0 11280.0 63.1 63.7 11440.0 90.4 91.1 17 11190.0 0.0 0.0 11280.0 66.2 66.8 11530.0 92.5 93.1 1260.0 93.1 1380.0 94.5 95.1 11620.0 93.1 1380.0 94.5 95.1 94.5 95.1 1380.0 94.5 95.1 94.5 95.1 1380.0 94.5 95.1 94.5 95.1 1380.0 94.5 95.1 94.5 95.1 1380.0 94.5 95.1 94.5 95.1 94.5 95.1 94.5 95.1 94.5 95.1 94.5 95.1 94.5 95.1 94.5 94.5 95.1 94.5 95.1 94.5 94.5 95.1 94.5 95.1 94.5 94.5 94.5 95.1 94.5	•	- 1		•	-	•			•					
11 770.0 0.0 0.0 880.0 73.8 73.0 990.0 102.9 102.12 12 1840.0 0.0 0.0 960.0 79.7 79.7 1080.0 100.3 100.0 100.3 100.0 100.0 0.0 0.0 1040.0 75.4 75.4 1170.0 95.7 96.6 97.0 14 980.0 0.0 0.0 1120.0 71.9 71.9 1260.0 96.6 97.0 15 1059.0 0.0 0.0 1220.0 63.3 63.9 1350.0 94.5 95.0 16 1120.0 0.0 0.0 1280.0 63.1 63.7 1440.0 90.4 91.0 17 1190.0 0.0 0.0 1280.0 66.2 66.8 1530.0 92.5 93.0 18 1260.0 0.0 0.0 1440.0 49.1 50.1 1600.0 88.5 88.0 19 1330.0 0.0 0.0 1520.0 0.0 0.0 1710.0 83.6 84.0 1400.0 0.0 0.0 1680.0 0.0 0.0 1880.0 81.7 82.0 1440.0 0.0 0.0 1680.0 0.0 0.0 1880.0 0.0 0.0 1280.0 0.0 0.0 1880.0 0.0 0.0 1280.0 0.0 0.0 1280.0 0.0 0.0 1280.0 0.0 0.0 1880.0 0.0 0.0 1280.0 0.0 0.0 1280.0 0.0 0.0 1880.0 0.0 0.0 1280.0 0.0 0.0 1280.0 0.0 0.0 1280.0 0.0 0.0 1280.0 0.0 0.0 1280.0 0.0 0.0 1280.0 0.0 0.0 1280.0 0.0 0.0 1280.0 0.0 0.0 1280.0 0.0 0.0 1280.0 0.0 0.0 1280.0 0.0 0.0 1280.0 0.0 0.0 1280.0 0.0 0.0 1280.0 0.0 0.0 1280.0 0.0 0.0 1280.0 0.0 0.0 1270.0 0.0 0.0 1280.0 0.0 0.0 1280.0 0.0 0.0 1270.0 0.0 0.0 1280.0 0.0 0.0 1270.0 0.0 0.0 1280.0 0.0 0.0 1280.0 0.0 0.0 1280.0 0.0 0.0 1270.0 0.0 0.0 1280.0 0.0 0.0 1280.0 0.0 0.0 1280.0 0.0 0.0 1280.0 0.0 0.0 1280.0 0.0 0.0 1280.0 0.0 0.0 1280.0 0.0 0.0 1280.0 0.0 0.0 1280.0 0.0 0.0 1280.0 0.0 0.0 1280.0 0.0 0.0 1280.0 0.0 0.0 1380.0 0.0 0.0 1380.0 0.0 0.0 1380.0 0.0 0.0 1380.0 0.0 0.0 1380.0 0.0 0.0	1			•	•		-		•	•				
12	1	- 1		:			•		,		:			
13	•			:			•		•	1				
14	,			•			:	•	,		96.3			
15	1	1			•		•		•		97.2			
16		1		•	•	•	•		*	•	95.1			
17					•	•		: :	•	•	91.4			
18	•				•		•		•	•	93.5			
19					•	•	-		•	•	89.5			
20					•		•	•	•	•	84.6			
21					•	•	7		· ·	:	82.9			
22	1						•				0.0			
23 1610.0							•	•	:		0.0			
24		- :			•		•		•	•	0.0			
25 1750.0	'	- :		•	•	•	•	•	•	•	0.0			
26 1820.0 0.0 0.0 2080.0 0.0 0.0 2340.0 0.0 0.0 27 1890.0 0.0 0.0 2160.0 0.0 0.0 2430.0 0.0 0.0 28 1960.0 0.0 0.0 2240.0 0.0 0.0 2520.0 0.0 0.0 29 2030.0 0.0 0.0 2320.0 0.0 0.0 2610.0 0.0 0.0 30 2100.0 0.0 0.0 2480.0 0.0 0.0 27700.0 0.0 0.0 31 2170.0 0.0 0.0 2480.0 0.0 0.0 2790.0 0.0 0.0 32 2240.0 0.0 0.0 2560.0 0.0 0.0 2880.0 0.0 0.0 35 2310.0 0.0 0.0 2640.0 0.0 0.0 2970.0 0.0 0.0 35 2350.0 0.0 0.0 2880.0 0.0 0.0 3150.0 0.0 0.0 35 2520.0 0.0 0.0 2880.0 0.0 0.0 3150.0 0.0 0.0 37 2590.0 0.0 0.0 2880.0 0.0 0.0 33330.0 0.0 0.0 38 2660.0 0.0 0.0 3040.0 0.0 0.0 33510.0 0.0 0.0 39 2730.0 0.0 0.0 3120.0 0.0 0.0 35510.0 0.0 0.0 3400.0 0.0 0.0 35510.0 0.0 0.0 3400.0 0.0 0.0 35510.0 0.0 0.0 3240.0 0.0 0.0 3400.0 0.0 0.0 35510.0 0.0 0.0 3400.0 0.0 0.0 35510.0 0.0 0.0 3400.0 0.0 0.0 35510.0 0.0 0.0 3400.0 0.0 0.0 35510.0 0.0 0.0 3400.0 0.0 0.0 35510.0 0.0 0.0 3200.0 0.0 0.0 3600.0 0.0 0.0 3600.0 0.0 0.0 3200.0 0.0 0.0 3600.0 0.0 0.0 3600.0 0.0 0.0 3200.0 0.0 0.0 3600.0 0.0 0.0 3600.0 0.0 0.0 3200.0 0.0 0.0 3600.0 0.0 0.0 3200.0 0.0 0.0 3600.0 0.0 0.0 3600.0 0.0 0.0 3200.0 0.0 0.0 3600.0 0.0 0.0 3600.0 0.0 0.0 3200.0 0.0 0.0 3600.0 0.0 0.0 3600.0 0.0 0.0 3200.0 0.0 0.0 3600.0 0.0 0.0 3600.0 0.0 0.0 3200.0 0.0 0.0 3600.0 0.0 0.0 3600.0 0.0 0.0 3200.0 0.0 0.0 3600.0 0.0 0.0 3600.0 0.0 0.0 3600.0 0.0 0.0 3600.0 0	•	- 1		•	•		•			•	0.0			
27 1890.0 0.0 0.0 2160.0 0.0 0.0 2430.0 0.0 0.0 28 1960.0 0.0 0.0		- 1				•	•	: :		•	0.0			
28 1960.0 0.0 0.0 2240.0 0.0 0.0 2520.0 0.0 0.0 29 2030.0 0.0 0.0 2320.0 0.0 0.0 2610.0 0.0 0.0 30 2100.0 0.0 0.0 24400.0 0.0 0.0		- 1				•	0.0	0.0		0.0	0.0			
29 2030.0 0.0 0.0 2320.0 0.0 0.0 2610.0 0.0 0.0 30 2100.0 0.0 0.0 2400.0 0.0 0.0 2700.0 0.0 0.0 0.0 31 2170.0 0.0 0.0 2480.0 0.0 0.0 2790.0 0.0 0.0 32 2240.0 0.0 0.0 2560.0 0.0 0.0 2880.0 0.0 0.0 35 2310.0 0.0 0.0 2640.0 0.0 0.0 2970.0 0.0 0.0 34 2380.0 0.0 0.0 2720.0 0.0 0.0 3060.0 0.0 0.0 35 2450.0 0.0 0.0 2880.0 0.0 0.0 3150.0 0.0 0.0 37 2590.0 0.0 0.0 2880.0 0.0 0.0 3240.0 0.0 0.0 38 2660.0 0.0 0.0 3040.0 0.0 0.0 33330.0 0.0 0.0 39 2730.0 0.0 0.0 3120.0 0.0 0.0 3510.0 0.0 0.0 40 2880.0 0.0 0.0 3200.0 0.0 0.0 3600.0 0.0 0.0 0.0 3600.0 0.0 0.0 0.0 32600.0 0.0	•	- 1		•	•		0.0	0.0	•	0.0	0.0			
30 2100.0 0.0 0.0 2400.0 0.0 0.0 2700.0 0.0 0 0 0 0 0 0 0	29						0.0	0.0	2610.0	0.0	0.0			
31 2170.0 0.0 0.0 2480.0 0.0 0.0 2790.0 0.	i	i,			0.0	2400.0	0.0	0.0	2700.0	0.0	0.0			
35 2310.0 0.0 0.0 2640.0 0.0 0.0 2970.0 0.0 0.0 34 2380.0 0.0 0.0 2720.0 0.0 0.0 3060.0 0.0 0.0 35 2450.0 0.0 0.0 2800.0 0.0 0.0 3150.0 0.0 0.0 36 2520.0 0.0 0.0 2880.0 0.0 0.0 3240.0 0.0 0.0 37 2590.0 0.0 0.0 2960.0 0.0 0.0 33330.0 0.0 0.0 38 2660.0 0.0 0.0 3040.0 0.0 0.0 3420.0 0.0 0.0 39 2730.0 0.0 0.0 3120.0 0.0 0.0 3510.0 0.0 0.0 40 2800.0 0.0 0.0 3200.0 0.0 0.0 3600.0 0.0 0.0	31				•	•	0.0	•	•	•	0.0			
35 2310.0 0.0 0.0	1 32		2240.0	0.0	0.0	[2560.0	0.0				0.0			
35 2450.0 0.0 0.0 0.0 0.0 3150.0 0.0							0.0	0.0	2970.0	0.0	0.0			
36 2520.0 0.0 0.0 2880.0 0.0 0.0 3240.0 0.0 0 0 0 0 0 0 0	34		2380.0	0.0	0.0	[2720.0	0.0	0.0	3060.0	0.0	0.0			
37 2590.0 0.0 0.0 2960.0 0.0 0.0 3330.0 0.0 0 38 2660.0 0.0 0.0 3040.0 0.0 0.0 3420.0 0.0 0 39 2730.0 0.0 0.0 3120.0 0.0 0.0 3510.0 0.0 0 40 2800.0 0.0 0.0 3200.0 0.0 0.0 3600.0 0.0 0	35		2450.0	0.0	0.0	2800.0	0.0	0.0	3150.0	0.0	0.0			
38 2660.0 0.0 0.0 3040.0 0.0 0.0 3420.0 0.0 0 39 2730.0 0.0 0.0 3120.0 0.0 0.0 3510.0 0.0 0 40 2800.0 0.0 0.0 3200.0 0.0 0.0 3600.0 0.0 0	36		2520.0	0.0	0.0	[2880.0	0.0	0.0	3240.0	0.0	0.0			
39 2730.0 0.0 0.0 3120.0 0.0 0.0 3510.0 0.0 0 40 2800.0 0.0 0.0 3200.0 0.0 0.0 3600.0 0.0 0	37				0.0	2960.0	0.0	•	•		0.0			
40 2800.0 0.0 0.0 3200.0 0.0 0.0 3600.0 0.0	38	11	2660.0	0.0	0.0	3040.0	0.0	•			0.0			
	1 39		2730.0	0.0	0.0	3120.0	0.0	•	•		0.0			
											0.0			
+														
OASPL 104.9 88.8 112.9 103.0 121.5 115														

F - FREQUENCY HZ

SPT. - SOUND PRESSURE LEVEL DB RE 2E-5 PA

MICROPHONE: MP 2 (PITCH ANGLE: 20.7 DEG)

		DATA-POINT / RUN											
+	+	IC	-1 /	41 +		IC	-2 /	42 +		l IC	-3 / +	43 +	
H	IN	F	SPL	SPLA		F	SPL	SPLA	1	F	SPL	SPLA	
	1	•	106.3	•	-	•	109.2	86.7	1	•	114.8	95.7	
}	2		104.3	88.2	-	160.0	110.8	97.4	ļ	•	•	104.3	
!	3	•	99.7	88.8	!	240.0	•	•	ļ	•	•	1109.6	
!	4 5	•	97.4	88.8		320.0	•	100.9 100.6	1		•	110.6 115.4	
}	6	•	92.0 89.1	85.4	1	400.0 480.0	•	100.8	1	•	•	116.0	
1	7	-	86.6	83.4	1	•	:	98.8	1	•	•	1115.0	
1	. :		82.4	79.2	1	640.0	98.6			•	115.6	1114.8	
1	_ :		75.2	73.3	1	720.0	95.7		i	•	1	1114.8	
•	9 0.		70.5	68.6	1	800.0	97.0	96.2	l	•	116.6	116.6	
	1		69.4	68.6	1	880.0	94.4	93.6	1	•	113.8	113.8	
•	2	840.0	66.5	65.7	ï	960.0	91.2	91.2	i	•	112.5	112.5	
•	3	910.0	62.7	62.7	i	1040.0	87.8	1	:	:	112.2	112.8	
•	4	980.0	50.4	50.4	í	1120.0	86.0	•		•	112.4	113.0	
•		1050.0	0.0	0.0	i	1200.0	84.2	•	•	•	109.8	110.4	
•		1120.0	0.0	0.0	•	1280.0	81.0	•		•	108.9	109.9	
•		1190.0	0.0	0.0	•	1360.0	77.8	•	•		107.9	108.9	
•	•	1260.0	0.0	0.0	•	1440.0	74.3	•	i	•	:	107.7	
•	-	1330.0	0.0	0.0	- :	1520.0	73.1	:		•	•	105.6	
j 2	0	1400.0	0.0	0.0	İ	1600.0	70.1	71.1		1800.0	102.1	103.3	
j 2	1	1470.C	0.0	0.0		1680.0	64.3	65.3		1890.0	102.4	103.6	
2	2	1540.0	0.0	0.0	1	1760.0	61.9	62.9		1980.0	102.2	103.4	
1 2	3	1610.0	0.0	0.0		1840.0	57.4	58.6		2070.0	99.8	101.0	
2	4	1680.0	0.0	0.0		1920.0	57.5	58.7	11	2160.0	98.0	99.2	
2		1750.0	0.0	0.0	1	2000.0	0.0	•		2250.0	98.1	99.4	
2		1820.0	0.0	0.0			0.0	•		2340.0	97.8	99.1	
•	•	1890.0	0.0	0.0		2160.0	0.0	•		2430.0	96.3	97.6	
•	•	1960.0	0.0	0.0		2240.0	0.0	•		2520.0	95.7	97.0	
•		2030.0	0.0	0.0		2320.0	0.0	•	•	2610.0	97.7	99.0	
•	•	2100.0	0.0	0.0		2400.0	0.0	-		2700.0	96.2	97.5	
•		2170.0	0.0	0.0		2480.0	0.0	•		2790.0	92.8	94.1	
		2240.0	0.0			2560.0	0.0			2880.0	93.7	94.9	
•		2310.0				2640.0	0.0		: :		94.4	95.6 95.6	
		2380.0	0.0			2720.0			: :] 94.7 80.5	95.9 90.7	
•		2450.0	0.0	0.0		2800.0	0.0		1 1		89.5	90.7 91.7	
•		2520.0	0.0		- : :	2880.0 2960.0	0.0		: :		90.5 92.5	91.7 93.7	
		2590.0 2660.0	0.0			3040.0	0.0			3420.0	90.1	93.7 91.3	
•		2730.0				3120.0	•	•		3510.0	-	91.5 88.9	
•		2730.0 2800.0				3200.0		-		3600.0	:		
		+											
+													
1		ASPL					116.5					125.8	
+						·							

F - FREQUENCY HZ

SPL - SOUND PRESSURE LEVEL DB RE 2E-5 PA

MICROPHONE: MP 3 (PITCH ANGLE: 20.7 DEG)

	1	DATA-POINT / RUN											
+	- 4-4	IC	-1 /			l IC	-2 /		l IC	-3 /	43		
HN		F	SPL	-		F	SPL		 F	SPL	SPLA		
i	1	70.0	107.6	81.4	i		1112.7	90.2	•	1116.7	97.6		
2			105.1	•	1	•	111.1	97.7	180.0	117.6	106.7		
3			101.2	90.3	ļ	:	•	102.2	270.0	117.6	109.0		
4		280.0	97.5	88.9	ļ	320.0	•	102.0	360.0	119.7	114.9		
5			94.1	87.5	ŀ	•	•	104.7	450.0	119.0	115.8		
6			92.3	87.5	ļ	:	•	103.4	540.0	:	1114.3		
1 7		490.0	88.0	84.8	ļ	560.0	•	100.5	630.0	1117.7	115.8		
8	į į	560.0	83.2	80.0		640.0	•	100.8	720.0	1119.0	118.2		
1 9	1 1	630.0	81.7	79.8	1		•	100.7		•	1116.4		
10			78.5 73.9	76.6 73.1	I	800.0 880.0	98.4	!	900.0	1117.4	117.4 117.4		
1 11	1 1		73.9	70.5	1	880.0 960.0	98.0 95.9		•	117.4 115.9	117.4 115.9		
13		910.0	65.8	65.8	1	1040.0	93.6	•	1170.0	114.9	115.5		
15		980.0	62.0	62.0	1	1120.0	89.6	, ,	1260.0	1116.9	117.5		
1 15	1	1050.0	0.0	0.0	ļ	1200.0	89.0		1350.0	114.1	114.7		
16	•	1120.0	0.0	0.0	- 7	1280.0	88.0		1440.0	113.1	114.1		
1 17		1190.0	0.0	0.0		1360.0	82.2		1530.0	113.3	114.3		
1.8		1260.0	0.0	•		1440.0	80.6		1620.0		113.9		
1 : 9		1330.0	0.0	•	1	1520.0	77.9		1710.0		109.6		
1 .0		1400.0	0.0	0.0	į	1600.0	76.9	: :	•	:	108.0		
21		1470.0	0.0	0.0	ĺ	1680.0	72.3	73.3	1890.0	106.6	107.8		
1 /2	il	1540.0	0.0	0.0	1	1760.0	68.9	69.9	1980.0	104.0	105.2		
1 23	11	1610.0	0.0	0.0	1	1840.0	67.3	68.5	12070.0	100.7	101.9		
1 24		1680.0	0.0	0.0		1920.0	66.5	67.7	2160.0	103.0	104.2		
] 25	11	1750.0	0.0	0.0	1	2000.0	66.1	67.3	[2250.0	103.9	105.2		
1 26		1820.0	0.0	0.0		2080.0	61.2		•	102.4	103.7		
1 . 7	11	1890.0	0.0	0.0		2160.0	58.9	60.1	2430.0	104.3	105.6		
1 38		1969.0	0.0	0.0		2240.0	0.0		-	105.4	106.7		
1 29		2030.0	0.0	0.0	•	2320.0	0.0		•	•	106.0		
00		2100.0	0.0	0.0		2400.0	0.0	•	•	•	104.6		
31		2170.0	0.0		•	2480.0	0.0		•	•	104.9		
		2240.0				2560.0	0.0		12880.0				
		2310.0				2640.0	0.0	. :	2970.0				
	- 1	2380.0				2720.0	0.0		3060.0		:		
		2450.0	:			[2800.0 [2880.0	0.0		3150.0		96.4		
		2520.0	0.0			2880.0 2960.0	0.0		3240.0 3330.0	1	100.1 101.6		
		2590.0	0.0 0.0			2960.0 3040.0	0.0		3420.0	•			
		2060.0 2730.0	0.0 0.0			3040.0 3120.0			3510.0	-	-		
		2800.0				3200.0			3600.0	•	•		
					•				+	•			
									+				
		SPL							1				
									+				

F - FREQUENCY HZ SOME - SOUND PRESSURE LEVEL DB RE 2E-5 PA

SEMA - A-WEIGHTED SOUND PRESSURE LEVEL DBA RE 2E-5 PA

MICROPHONE: MP 4 (PITCH ANGLE: 20.7 DEG)

	-	DATA-POINT / RUN												
+	+-	IC:	-1 / +	41 +	 -	l IC	-2 /	42 +	 -	l IC	-3 / +	43 ++		
HN	1	F	SPL	SPLA	<u> </u>	F +	SPL	SPLA	 -	F	SPL	SPLA		
1 1	į	•	109.3	83.1	į	•	116.4]	•	•	98.4		
2	ŀ	140.0	•	90.0	ļ	160.0	111.9	98.5 104.2	! !	•	115.9 119.6	105.0 111.0		
3	1	1	100.9 99.9	90.0 91.3	i	240.0 320.0	•	104.2	 	•		1113.9		
1 5	i	: _	95.1	88.5	1	400.0	•	104.4	 	•		115.9		
1 6	1	!	91.7	86.9	1	480.0	•	103.6	l I	•		116.2		
1 7	İ	:	88.4	85.2	1	560.0	•	103.0	1	•	119.3	1117.4		
8	i		86.1	82.9	1	640.0	•	103.2	i	•	:	117.6		
: .			83.3	81.4	1	720.0	•	100.4	\ 	•	:	118.0		
•	i		78.6	76.7	Ĺ	•	100.6	99.8	, 	•	:	118.5		
111	i	i	77.3	76.5	ì	880.0	98.5	97.7		:	116.9	116.9		
12	i		72.1	71.3	i	960.0	96.3	96.3	i	!	118.0	118.0		
1 13	í	910.0	66.4	66.4	i	1040.0	94.5	94.5	İ	•	116.5	117.1		
14	į	980.0	60.0	60.0	į	1120.0	93.8	93.8	j	•	115.0	1115.6		
15	i	1050.0	0.0	0.0	İ	1200.0	89.8	90.4	İ	1350.0	114.5	115.1		
16	İ	1120.0	0.0	0.0	İ	1280.0	86.0	86.6	İ	1440.0	113.6	114.6		
17	j	1190.0	0.0	0.0	1	1360.0	86.6	87.2		1530.0	111.4	112.4		
18	Ĺ	1260.0	0.0	0.0		1440.0	82.7	83.7		1620.0	110.0	111.0		
19	1	1330.0	0.0	0.0	-	1520.0	78.8				110.5	1111.5		
20	1	1400.0	0.0	0.0		1600.0	76.7	77.7		1800.0	108.2	109.4		
•	•	1470.0	0.0	0.0		1680.0	75.2	•	•	•	105.5	106.7		
•	•	1540.0	0.0	0.0		1760.0	72.9			-	•	107.8		
23	•	1610.0	0.0	0.0		1840.0	68.5	•		2070.0		106.0		
24		1680.0	0.0	0.0	ļ	1920.0	65.7	:		2160.0		103.9		
25	•	1750.0	0.0	0.0	•	2000.0	64.4	•		2250.0		105.7		
•	•	1820.0	0.0	0.0	ļ	2080.0	57.5	•				104.4		
		1890.0	0.0	0.0	ļ	2160.0	0.0	0.0		•		104.6		
•	•	1960.0	0.0	0.0		2240.0	0.0	0.0		•	•	105.9		
•	•	2030.0	0.0	0.0	•	2320.0 2400.0	0.0	0.0 0.0				104.5		
•		2100.0 2170.0	0.0	0.0 0.0	1	2480.0	0.0	•	 1	•	*	103.8 105.2		
		2240.0	0.0	•	l	2560.0	0.0			2880.0		103.2		
		2310.0				2640.0				2970.0				
•	•	2380.0		•	-	2720.0				3060.0				
•		2450.0		_		2800.0	0.0			3150.0				
•		2520.0		•	•	2880.0	0.0			3240.0				
•	-	2590.0		:	- 1	2960.0	0.0			3330.0				
	•	2660.0		•		3040.0				3420.0				
		2730.0				3120.0				3510.0		•		
40	i,	2800.0	0.0	0.0	1	3200.0	0.0	0.0		3600.0	98.5	99.5		
								+	Н	·		+		
•														
		ASPL								 				
T		 -		,	•			,	. 1			,r		

F - FREQUENCY HZ
SPL - SOUND PRESSURE LEVEL DB RE 2E-5 PA
SPLA - A-WEIGHTED SOUND PRESSURE LEVEL DBA RE 2E-5 PA

MICROPHONE: MP 5 (PITCH ANGLE: 20.7 DEG)

	<u>+</u>	DATA-POINT / RUN											
+	 IC	-1 /	41	IC	-2 / +	42	IC	-3 /	43 +				
HN	F	SPL	SPLA	F	SPL	SPLA	F	SPL	SPLA				
1	70.0	110.1	83.9	80.0	118.1	95.6	90.0	118.0	98.9				
2	140.0	106.4	90.3	160.0	113.3	99.9	180.0	115.7	104.8				
3	210.0	98.7	87.8	240.0	110.7	102.1	270.0	119.0	110.4				
4	280.0	99.1	90.5	: :	114.0	107.4	360.0	•	115.2				
5	350.0	97.1	90.5	400.0	109.1	104.3	450.0	114.6	111.4				
6	420.0	89.5	84.7	480.0	103.8	100.6	540.0	118.1	114.9				
! '	490.0	86.5	83.3	560.0	105.9	102.7	630.0	113.3	116.4				
•	560.0	84.3	81.1	640.0	104.2	102.3	720.0	•	115.3				
9	630.0	81.5	•	720.0	99.3	98.5	310.0	•	114.5				
10	700.0	77.1	75.2	800.0	97.5	96.7	900.0	•	[116.2]				
11	770.0	72.0	71.2	880.0	95.5	94.7	•	•	1115.7				
•	840.0	68.4	67.6	960.0	95.6	95.6	1080.0	•	111.1				
13	910.0	64.7		1040.0	92.3	,	•	•	114.7				
14	980.0	61.6		1120.0	88.5	•	11260.0	•	113.5				
15	1050.0	53.6		1200.0	88.1	•	1350.0	-	109.4				
16	1120.0	0.0	I	1280.0	86.8	:	1440.0		112.0				
17	1190.0	0.0	:	1360.0	80.5		11530.0		107.9				
	1260.0	0.0	0.0	1440.0	79.4	80.4	11620.0	:	107.1				
•	1330.0	0.0	0.0	11520.0	78.3		1710.0	106.9	107.9				
•	1400.0 1470.0	0.0	1	1600.0	72.1 70.4	•	•		104.1				
	11540.0	0.0 0.0	•	1680.0 1760.0	69.1		1890.0 1980.0	•	103.6 104.2				
•	1610.0	0.0		1840.0	67.0	68.2	2070.0		104.2				
	1680.0	0.0	:	1920.0	61.1			•	102.0				
	1750.0	0.0		2000.0	62.3	63.5	2250.0	:	101.0				
	1820.0	0.0	:	2080.0	58.5	59.7	2340.0	97.0	98.3				
27	1890.0	0.0	•	2160.0	49.9	51.1	2430.0		101.6				
	1960.0	0.0		2240.0	0.0	0.0	2520.0	96.7	98.0				
	2030.0	0.0		2320.0	0.0	0.0	2610.0	96.2	97.5				
	2100.0	0.0		2400.0	0.0	0.0	,	100.4	101.7				
31	2170.0	0.0		2480.0	0.0	0.0	2790.0	95.5	96.8				
32	2240.0	0.0	0.0	2560.0	•	0.0 j	2880.0	96.5	97.7				
	2310.0			2640.0	0.0		2970.0						
34	2380.0	0.0	0.0	2720.0	0.0		3060.0						
	2450.0			2800.0	0.0	0.0	3150.0	96.5	97.7				
36	2520.0	0.0	0.0	2880.0	0.0	0.0	3240.0	96.7	97.9				
	2590.0	0.0	0.0	12960.0	0.0	0.0	3330.0	92.3	93.5				
38	2660.0	0.0		3040.0	0.0	0.0	13420.0	94.7	[95.9]				
39	2730.0	0.0		3120.0	•		3510.0						
	2800.0	•		3200.0			3600.0	•					
	+												
•		-											
)ASPL						1						
+	·	+	r+	+		· +	+	· - · ·	++				

F - FREQUENCY HZ

SPL - SOUND PRESSURE LEVEL DB RE 2E-5 PA

SPLA - A-WEIGHTED SOUND PRESSURE LEVEL DBA RE 2E-5 PA

CARMINE CANADAS CONTRACTOR CONTRACTOR CONTRACTOR

LEGGGGGGG ERANANASS WINDOWN PROBLE

MICROPHONE: MP 6 (PITCH ANGLE: 20.7 DEG)

	DATA-POINT / RUN										
+	IC-	-1 /	41	1	-	-2 /	42 +	1	l IC	-3 /	43
HN	F	SPL	SPLA	-	-	SPL	SPLA	 -	, F	SPL	SPLA
1	70.0	84.5	58.3	j	•	92.5			!	92.7	73.6
2	140.0	79.5	63.4	ļ	•	86.2		ļ	•	92.3	81.4
3	210.0	73.1	62.2	-		82.1	73.5	ļ	270.0	92.7	84.1
1 4	280.0	70.0	61.4	ļ	320.0	84.7	78.1		360.0	92.1	87.3
5	350.0	67.6	61.0	ļ	400.0	80.2	75.4	Ì	450.0	82.4	79.2
6	420.0	56.6	51.8	1	480.0	73.9	70.7	ļ	540.0	89.6	86.4
7	490.0	50.9	47.7	ļ		77.5	74.3]	630.0	86.7	84.8
	560.0	0.0	0.0	-	640.0	71.8	69.9	i	720.0	80.1	79.3
	630.0	0.0	0.0	1		62.9	•]	1	86.8	86.0
	700.0	0.0	0.0	1	•	68.0	•		•	82.4	82.4
	11 770.0	0.0 0.0	0.0	1		61.3	60.5 53.9	 	990.0 1080.0	77.9 81.4	77.9 81.4
•	840.0 910.0	0.0 0.0	0.0	1	1040.0	53.7	•	•	1170.0	77.2	01.4 77.8
•	1 980.0	0.0	0.0	•	1120.0	56.6	•	•	1260.0	74.7	75.3
•	11050.0	0.0	0.0	•	1200.0	40.5		•	1350.0	74.7	75.3
•	11120.0	0.0	0.0		1280.0	0.0			1440.0	72.8	73.8
•	11190.0	0.0	0.0	•	1360.0	0.0	<u>'</u>	:	1530.0	70.0	71.0
•	1260.0	0.0	0.0	•	1440.0	0.0	•	•	1620.0	61.0	62.0
-	11330.0	0.0	0.0	•	1520.0	0.0	•	•	1710.0	71.8	72.8
•	11400.0	0.0	0.0	•	1600.0	0.0	-		1800.0	62.4	63.6
•	11470.0	0.0	0.0	•	1680.0	0.0		•	1890.0	62.3	63.5
•	11540.0	0.0	0.0	•	1760.0	0.0	•		1980.0	64.3	65.5
•	[]1610.0	0.0	0.0	•	1840.0	0.0		•	2070.0	56.8	58.0
	11680.0	0.0	0.0		1920.0	0.0	0.0	İ	2160.0	57.3	58.5
25	1750.0	0.0	0.0	İ	2000.0	0.0	0.0	ĺ	2250.0	61.9	63.2
26	1820.0	0.0	0.0	1	2080.0	0.0	0.0		2340.0	58.9	60.2
27	1890.0	0.0	0.0	-	2160.0	0.0	0.0	ļ	2430.0	51.5	52.8
28	1960.0	0.0	0.0	1	2240.0	0.0	0.0		2520.0	0.0	0.0
29	[[2030.0	0.0	0.0	•	2320.0	0.0		•	2610.0	0.0	0.0
•	 2100.0	0.0	0.0		2400.0	0.0	•	•	2700.0	0.0	0.0
	2170.0	0.0		•	2480.0	0.0	•	•	2790.0	0.0	0.0
	112240.0				2560.0				2880.0		
•	2310.0	•		-	2640.0		•	•	2970.0		•
	[2380.0			- 1	2720.0			: .	3060.0		
	1 2450.0				2800.0			: .	3150.0		
•	2520.0				2880.0				3240.0		0.0
•	112590.0		•	•] 2960.0 3040.0				3330.0		0.0
	2660.0 12730.0				3040.0			•	3420.0 3510.0		0.0 0.0
•	2730.0 2800.0	•		•	3120.0 3200.0				3600.0		
	2000.0 										•
1	OASPL	86.1	68.7	1	i	94.5	83.2	l	 	99.9	94.5
+		+		+-	+	·		H	+ -	·	++

F - FREQUENCY HZ

SPL - SOUND PRESSURE LEVEL DB RE 2E-5 PA

terral designed measures appeared restroice services

MICROPHONE: MP 7 (PITCH ANGLE: 20.7 DEG)

	DATA-POINT / RUN									
++	 IC	-1 /			IC-	-2 /		IC	-3 /	43 +
HN	} F	•	SPLA	}	•	SPL	SPLA	F	SPL	SPLA
1 1		106.1			•	114.6	92.1	90.0	110.6	91.5
2	•	1		1	•		,	•	•	0.0
3	•	•	•	-	•	1	! . !	•	•	0.0
4	•			1	•		0.0	•	:	0.0
5	•	:	•	!	•	•	0.0	•	•	0.0
6	•	0.0	•	ļ		0.0			•	0.0
7	•	0.0	•	ļ	•	0.0		630.0		0.0
8	1	0.0	•		•	0.0		•	•	0.0
9	•	0.0		ļ	•	0.0		810.0	•	0.0
10	•	0.0	•		•	0.0		900.0		0.0
11	•	0.0	:		•	0.0	•	990.0	•	0.0
12	•	0.0	•		•	0.0		11080.0	•	0.0
13	•	0.0	•		1040.0	0.0		1170.0	•	0.0
	980.0 1050.0	0.0	•		1120.0 1200.0	0.0		1260.0 1350.0	•	0.0 0.0
	1120.0		•		1280.0	0.0		1440.0	•	0.0
	1120.0	•			1360.0	0.0		1530.0	•	0.0
: :	1260.0		•		1440.0	0.0		1620.0	:	l 0.0
	1330.0	•	:		1520.0	0.0		1710.0		0.0
•	1400.0	•	•		1600.0	0.0		1800.0	:	0.0
: :	1470.0	:	•		1680.0	0.0	•	1890.0	•	0.0
•	1540.0	•	•	•	1760.0	0.0		1980.0	•	0.0
	1610.0	•	:	•	1840.0	0.0		2070.0		0.0
	1680.0		•	•	1920.0	0.0		2160.0		0.0
•	1750.0	•		•	2000.0	0.0		2250.0	•	0.0
	1820.0		:		2080.0	0.0		2340.0	•	0.0
•	1890.0	0.0			2160.0	0.0	,	2430.0	•	0.0
	1960.0	0.0	•		2240.0	0.0	•	2520.0	i 0.0	0.0
	2030.0	0.0	•		2320.0	0.0		2610.0	j 0.0	0.0
30	2100.0		0.0	i	2400.0	0.0		2700.0	0.0	0.0
	2170.0	0.0	•		2480.0	0.0		2790.0		0.0
	2240.0	0.0			2560.0	,		2880.0	0.0	0.0
	2310.0				2640.0			2970.0		
•	2380.0	•			2720.0		•	3060.0		
•	2450.0				2800.0			3150.0		0.0
36	2520.0	0.0		: :	2880.0			3240.0	0.0	0.0
37	2590.0	0.0	0.0	П	2960.0	0.0	0.0	3330.0	0.0	0.0
	2660.0							3420.0		0.0
39	2730.0									0.0
	2800.0							3600.0 +		
+	ASPL	k	·	+-+	+		+	+	+	
	ASPL									

F - FREQUENCY HZ

SPL - SOUND PRESSURE LEVEL DB RE 2E-5 PA

SPLA - A-WEIGHTED SOUND PRESSURE LEVEL DBA RE 2E-5 PA

MICROPHONE: MP 9 (PITCH ANGLE: 20.7 DEG)

	DATA-POINT / RUN										
	l IC	-1 /	41	IC	-2 /	42	IC	-3 /	43 		
HN	F	SPL	SPLA	F	SPL	SPLA	F	SPL	SPLA		
	70.0	19.5	•	80.0	36.4	13.9	90.0	42.2	23.1		
	140.0	0.0	:	160.0	0.0	0.0	180.0	0.0	0.0		
	210.0	0.0	<u>.</u>	240.0	0.0	0.0	270.0	0.0	0.0		
•	280.0	0.0	•	320.0	0.0	0.0	360.0	0.0	0.0		
	350.0	0.0	0.0	400.0	0.0	0.0	450.0	0.0	0.0		
•	420.0	0.0	•	480.0	0.0	•	540.0	0.0	0.0		
•	490.0 560.0	0.0 0.0	•	560.0	0.0	: :	630.0 720.0	0.0 0.0	0.0 0.0		
•	560.0 630.0	0.0 0.0	2	640.0 720.0	0.0	•	810.0	0.0	0.0		
,	700.0	0.0	:	800.0	0.0	:	900.0	0.0	0.0		
•	770.0	0.0	:	880.0	0.0	: :	990.0	0.0	0.0		
•	840.0	0.0	•	960.0	0.0		1080.0	0.0	0.0		
	910.0	0.0	•	1040.0	0.0	•	1170.0	0.0	0.0		
	980.0	0.0		11120.0	0.0		1260.0	0.0	0.0		
j 15	1050.0	0.0	:	1200.0	0.0	•	1350.0	0.0	0.0		
16	1120.0	0.0	0.0	1280.0	0.0	0.0	1440.0	0.0	0.0		
17	1190.0	0.0	0.0	1360.0	0.0	0.0	[1530.0	0.0	0.0		
18	1260.0	0.0	0.0	11440.0	0.0	0.0	1620.0	0.0	0.0		
19	1330.0	0.0	0.0	1520.0	0.0		1710.0	0.0	0.0		
•	1400.0	0.0	•	1600.0	0.0	•	1800.0	0.0	0.0		
•	1470.0	0.0	•	1680.0	0.0	· :	1890.0	0.0	0.0		
	1540.0	0.0	•	1760.0	0.0	•	1980.0	0.0	0.0		
	1610.0	0.0	:	1840.0	0.0		2070.0	0.0	0.0		
•	1680.0	0.0	•	1920.0	0.0	•	2160.0	0.0	0.0		
•	1750.0	0.0		2000.0	0.0		2250.0	0.0	0.0		
•	1820.0	0.0		2080.0	0.0	•	2340.0	0.0	0.0		
•	1890.0	0.0 0.0		2160.0	0.0	: :	2430.0 2520.0	0.0 0.0	0.0		
•	1960.0 2030.0	0.0		2240.0 2320.0	0.0		2610.0	0.0	0.0		
•	2030.0 2100.0	0.0		12400.0	0.0		2700.0	0.0	0.0		
	2170.0	0.0	•	12480.0	0.0	•	2790.0	0.0	0.0		
•	2240.0			2560.0	•	•	2880.0				
	2310.0			2640.0			2970.0				
	2380.0			2720.0			3060.0		0.0		
	2450.0			2800.0	•		3150.0				
•	2520.0			2880.0		0.0	3240.0	0.0			
	2590.0			2960.0			3330.0		0.0		
	[2660.0]						3420.0		0.0		
	2730.0			3120.0	•		3510.0		•		
40	2800.0	0.0	0.0	[3200.0	0.0		3600.0				
	++										
•											
	DASPL										
T			,			,					

- FREQUENCY HZ

SPL - SOUND PRESSURE LEVEL DB RE 2E-5 PA SPLA - A-WEIGHTED SOUND PRESSURE LEVEL DBA RE 2E-5 PA

MICROPHONE: MP 1 (PITCH ANGLE: 21.6 DEG)

JC-1		DATA-POINT / RUN										
1 80.0 105.5 83.0 90.0 112.0 92.9 2 163.0 103.1 89.7 180.0 109.6 98.7	+	_	JC	-1 /	193		JC	-2 /	194			
1	HN		F	SPL		•	•	SPL	SPLA	F	SPL	SPLA
3 240.0 99.8 91.2 270.0 109.6 101.0	•	•		105.5				112.0	92.9	1		
4 320.0 96.7 90.1 360.0 107.1 102.3	2	1	160.0	103.1	89.7	1	180.0	109.6	98.7	1		
5	3	1		•	•	l	270.0	109.6	101.0	1		
6	: -	: :				1	•	1				
7	:			•		1	•	•	100.3			
8	: _	1 :		•	:	ļ	1	•				
9	!			•		1	•	•	: :	ļ		
10				•	•	ļ	:	•			1	
11				•	Ī.	ļ	1	•	:	1		
12				1	:	ļ	•	•		ļ		
13 1040.0	•			•		ļ	:	•				
14	1			:	•		•	!				
15 1200.0 0.0 0.0 1350.0 76.9 77.5	•						:	1	1			
16	_					•	-	•	•		1 1	
17	:	: :			-	:	:	-		1	1 1	
18				:	:	:				1	1 1	
19	:	: :			:			•	: :	1	; [
20		: :			:	:		•	: .	1	1 1	1
21					:	7		•		1	1 1	ļ
22 1760.0	1					•		•		1		
23 1840.0 0.0 0.0 2070.0 46.8 48.0	•				:			•	: :	<u>'</u>	1 1	1
24 1920.0 0.0 0.0 2160.0 0.0 0.0	•				•	7	•	•	: :	i		!
25		- 1			:	:	•	•	: :			i
26	-				•	-	•		: :	i	i i	
27	:	: :			:	:	:	0.0		İ	i i	i
28 2240.0 0.0 0.0 2520.0 0.0 0.0	:			0.0		•	•	0.0	0.0	İ	i i	
30 2400.0 0.0 0.0 2700.0 0.0 0.0	28	H	2240.0	0.0		1		0.0	0.0		j i	!
31 2480.0 0.0 0.0 2790.0 0.0 0.0	29	H	2320.0	0.0	0.0		2610.0	0.0	0.0	1	I i	i
32 2560.0 0.0 0.0 2880.0 0.0 0.0	,		,	0.0	0.0		2700.0	0.0	0.0	1	1	Ì
33 2640.0 0.0 0.0 2970.0 0.0 0.0			-		•	•	•	,		•	1	Ì
34 2720.0 0.0 0.0 3060.0 0.0 0.0 0.0			_						0.0	1		į
35 2800.0 0.0 0.0 3150.0 0.0 0.0	•							•		•	1 1	
36 2880.0 0.0 0.0 3240.0 0.0 0.0	•		•			:	•			•	1	
37 2960.0 0.0 0.0 3330.0 0.0 0.0							•	,				İ
38 3040.0 0.0 0.0 3420.0 0.0 0.0						•					! !	İ
39 3120.0 0.0 0.0 3510.0 0.0 0.0	•		•			•				:	1	1
40 3200.0 0.0 0.0 3600.0 0.0 0.0		: :										
++++++++			•								!!!	ļ
+ +++						•			•	•	1 !	ļ
												,
1 Vinite 1400+1 21+3 1 1140+1 1407; 1 1 1 1											+ - + 	+
+++++++	,										 +======	

F - FREQUENCY HZ

CONTRACTOR DESCRIPTION OF THE PROPERTY CONTRACTOR STANDARD DESCRIPTION OF THE PROPERTY OF THE

SPI. - SOUND PRESSURE LEVEL DB RE 2E-5 PA

MICROPHONE: MP 9 (PITCH ANGLE: 19.9 DEG)

		DATA-POINT / RUN										
+	+	KN	-1 /	187 +	1	KN	-2 /		 -	•	-3 /	185
H	N	F	SPL	SPLA	1	F	SPL	SPLA	 -	F	SPL	SPLA
•		-	105.7	•	į	•	111.9	89.4	į	•	110.6	91.5
•	•		101.7	85.6	ļ	160.0	107.5	94.1		•	107.3	96.4
:	•	210.0	90.1	79.2	1	240.0	104.2	95.6	1	270.0	113.8	105.2
		280.0	94.5	85.9	ļ	320.0	105.7	99.1		•	•	106.4
•	5	•	89.0	82.4	ļ	400.0	100.0			•	•	104.8
	•	420.0	81.1	76.3	ŀ	480.0	97.4	•		•	•	106.9
•	. :	490.0	0.0	0.0		560.0	97.1	•			*	105.8
:		560.0] 0.0	0.0	1	,	93.3	•		•		105.3
1 1	9	•	0.0	0.0	1	720.0	89.5	•		•	•	105.6
1 1	. :		0.0 0.0	0.0	1	800.0 880.0	86.6			•	*	103.4
1	•	·	0.0	0.0	1	960.0	85.2	•		•	:	102.7 103.4
1 1	- :	910.0	0.0	0.0 0.0	1	1040.0	78.8 80.1	•		•	-	
1 1	•	980.0	0.0	0.0	1	1120.0	77.4			1260.0	100.7	101.3 97.9
1 1		1050.0	0.0	0.0	1	1200.0	71.2			1200.0	97.6	98.2
1 10	•	1120.0	0.0	0.0	•	1280.0	69.3			1440.0	97.0	98.0
1 1		11190.0	0.0	•	•	1360.0	66.2	:		1530.0	93.1	90.0 94.1
1 18		1260.0	0.0	•	•	1440.0	62.6			1620.0	92.7	93.7
1		1330.0	0.0	:	•	1520.0	0.0			1710.0	91.1	92.1
20		1400.0	0.0	•	•	1600.0	0.0	:		1800.0	89.0	90.2
1 2		1470.0	0.0			1680.0	0.0			1890.0	88.4	89.6
2		1540.0	0.0	•	•	1760.0	0.0	:		1980.0	85.7	86.9
2	•	1610.0	0.0	•		1840.0	0.0			2070.0	79.6	80.8
1 24	-	1680.0	0.0	0.0		1920.0	0.0			2160.0	85.3	86.5
j 2:		1750.0	0.0	0.0	i	2000.0	0.0	:		2250.0	81.7	83.0
1 20		1820.0	0.0	0.0	İ	2080.0	0.0	:		2340.0	78.7	80.0
2		1890.0	0.0	0.0	i	2160.0	0.0			2430.0	80.3	81.6
28		1960.0	0.0	0.0	İ	2240.0	0.0	:		2520.0	74.9	76.2
j 29	9 į	2030.0	0.0	0.0	Ĺ	2320.0	0.0	0.0	i	2610.0	72.6	73.9
30	j c	2100.0	0.0	0.0	İ	2400.0	0.0			2700.0	71.4	72.7
j 3:	1	2170.0	0.0	0.0	İ	2480.0	0.0	0.0	Ì	2790.0	0.0	0.0
32	2	2240.0	0.0	0.0	ij	2560.0	0.0	0.0	Í	2880.0	•	
		2310.0			1 1	2640.0				2970.0		
34	4	2380.0	0.0	0.0	П	2720.0	0.0	0.0	1	3060.0	0.0	0.0
35	5	2450.0	0.0	0.0	П	2800.0	0.0	0.0	1	3150.0	0.0	0.0
36	5	2520.0	0.0	0.0	H	2880.0	0.0	0.0	1	3240.0	0.0	0.0
37	7	2590.0	0.0	0.0	П	2960.0	0.0	0.0	1	3330.0	0.0	0.0
38	3	2660.0	0.0	0.0		3040.0	0.0	0.0	1	3420.0	0.0	0.0
		2730.0				3120.0				3510.0		0.0
		2800.0				3200.0			•	3600.0	,	
		+										
+												
1		ASPL										
+					+-			+	+		h	·

F - FREQUENCY HZ

SPL - SOUND PRESSURE LEVEL DB RE 2E-5 PA

THOLDBERT HOLD IDD

KATA DIZIZIA BISIKK MUSIKA MODILA

MICROPHONE: MP 1 (PITCH ANGLE: 21.6 DEG)

	-	+ !			DATA-	POINT /	RUN	- 		+
+-		 HC-	-1 /	39	нс	-2 /	40 +	+	+	
. Hi	4	F	SPL	•	F	SPL	SPLA	F	SPL	SPLA
	1 -	80.0	105.6			114.7		İ	, 	
1 :	2	160.0	97.6	84.2	180.0	115.8	104.9	ļ		ļ
1 :	3	•	105.4	•	270.0		104.1	ļ	<u> </u>	ļ
4	4	•	104.9	•	•	•	107.1	ļ		
	5	400.0	100.7	95.9	•	•	107.0	ļ	!	ļ
	6	480.0	94.5	91.3	•		104.8	ļ	!	ļ
•	7	560.0	94.2	91.0	•	•	: -	1]	
•	8	640.0	88.2	86.3	•	•	107.4	ļ		
	9	:	86.7	85.9	•	•	103.2	-	 	ļ
1 10		800.0	84.8	84.0	•	•	104.5	I 1	1	ļ
1 1		880.0	84.4	83.6	•	-	103.2	1] 	
1 1:		960.0	78.2		•	99.4	99.4	i i		:
1 14	•	1040.0	0.0		1170.0 1260.0	95.5 97.2	96.1 97.8	i	 	<u> </u>
1 15		1120.0 1200.0	0.0 0.0	:	1350.0	93.8	97.6 94.4	1		i !
,) (1280.0	0.0	•	1440.0	88.1	89.1	1		1
1 1		1360.0	0.0	•	1530.0	93.7	94.7	i		1
1 18		1440.0	0.0	: :	1620.0	89.4	90.4	1	1	ì
1 19		1520.0	0.0	•	1710.0	82.5	: :	i	i i	i
1 20		1600.0	0.0		1800.0	85.6		Ì	i	i
1 2		1680.0	0.0		1890.0	83.3	84.5	i	i i	j
1 2		1760.0	0.0		1980.0	0.0	0.0	i	i	i
23	•	1840.0	0.0	: :	2070.0	0.0	i 0.0 i	i	i i	İ
24		1920.0	0.0	•	2160.0	0.0	j 0.0 j	i	j i	į
2.5		2000.0	0.0	:	2250.0	0.0	0.0	İ	İ	İ
20	6	2080.0	0.0	0.0	2340.0	0.0	0.0	1	j 1	- 1
2	7	2160.0	0.0	0.0	2430.0	0.0	0.0	1		
28	8	2240.0	0.0	0.0	2520.0	0.0	0.0	1] [J
1 29	9	2320.0	0.0	0.0	2610.0	0.0	0.0	i		ļ
30	0	2400.0	0.0	0.0	2700.0	0.0	0.0			
3	,	2480.0	0.0	0.0	2790.0	0.0	0.0	1		1
		2560.0			2880.0					1
•		2640.0	•		2970.0		: :	1		!
		2720.0	•		3060.0	•				Į.
		2800.0			3150.0	•				ļ
		2880.0	•		3240.0	•		1		ļ
		2960.0			3330.0	•				1
		3040.0			3420.0	•		:	 	ļ. 1
•		3120.0 3200.0			3510.0 3600.0	•		1	 	} t
	•	3200.0			3600.0 - 	•	•	 -+	 	ا +
+	·				+		•	· +		++
ļ	O.	ASPL	111.0	103.0	Ì	121.5	115.9	1		İ
+					· +					+

F - FREQUENCY HZ

SPL - SOUND PRESSURE LEVEL DB RE 2E-5 PA

SPLA - A-WEIGHTED SOUND PRESSURE LEVEL DBA RE 2E-5 PA

MICROPHONE: MP 2 (PITCH ANGLE: 21.6 DEG)

	DATA-POINT / RUN											
		, 				DATA	IOINI /	KON				
+	-+-	HC	-1 / +	39 +	1	HC	-2 / +	40 +	 -+		↓	
HN	1	F	SPL	SPLA	į	F	SPL	SPLA		F	SPL	SPLA
1	Ì	80.0	108.8	86.3	1	90.0	116.0	96.9]	,
2	1	160.0	109.7	96.3	Ì	180.0	118.5	107.6	1			
3	1	240.0	108.8	100.2		270.0	119.1	110.5	1			
4	١	-	•	100.2		360.0	114.6	109.8	1			
5	1	:	•	100.7		<u>.</u>	•	1115.7	1			
6	ļ		:	102.9	1		•	116.0	1			
1 7	ļ	•	•	100.2	ļ		•	1115.0	!			
8	ļ	:	100.4	98.5	ļ		•	114.8	ļ]	
1 9	ļ	720.0	97.5	96.7	ļ	•	•	115.9	!			
10	ļ	800.0	97.9	97.1	ļ	•	•	1116.6	!			
11	1	880.0	96.5	95.7	ļ	•	113.8	113.8	!			
12	-	960.0	92.6	92.6	ļ	•		[112.5]	1			
1 13	ł	1040.0	89.6	89.6	ļ	•		112.9	!			
1 14	1	1120.0	87.8	87.8 85.8	•			112.5	1			
1 15	1	1200.0 1280.0	85.2 83.4	•	•	•		110.0	1			
1 17	- 7	1360.0	1 79.5	•	•	•	•	109.6	l			
1 18	•	1440.0	76.1	Ĭ.		1620.0	:	100.0	1			
19	- :	1520.0	76.6	:	:			105.8	;			
20	- :	1600.0	72.8	73.8	:			103.6	¦			
21	- :	1680.0	66.7	67.7				103.7	1			
22	•	1760.0	0.0	0.0				103.5	i			
23	•	1840.0	0.0	0.0		2070.0	•	101.1	i		i	
24	- :	1920.0	0.0	:		2160.0	98.5	99.7	i	i	i	
25	į:	2000. 0	0.0		•	2250.0	98.6	99.9	i			
26	į,	2080.0	0.0	:	•	2340.0	98.1	99.4	i		į	
27	i	2160.0	0.0	:		2410.0	97.1	98.4	j		j	
28	j	2240.0	0.0	-	•	2520.0	96.3	•	i			
29	İ	2320.0	0.0	0.0	Ì	2610.0	98.0	99.3	İ		ĺ	
30		2400.0	0.0	0.0		2700.0	96.4	97.7		ĺ	ļ	
31		2480.0	0.0	0.0		2790.0	93.2	94.5	1			
		2560.0	0.0	0.0		2880.0	94.0	95.2	1	ĺ		
		2640.0	0.0	•		2970.0				1		
	- 1	2720.0	0.0			3060.0		: :		ļ		
•		2800.0	0.0	•		3150.0			ļ		l	
•		2880.0	0.0			3240.0			!	1	1	
•	, ,	2960.0	0.0			3330.0					1	
		3040.0	!		1 1	3420.0		: :	:	l		
-		3120.0	0.0	•		3510.0		•	•			
•	٠,	3200.0	0.0	•		3600.0					 	
+			+ +		•				 +			
İ	0	ASPL	116.3	•	•			125.8	[' 	
· +	.		•	•				•	•		+	

- FREQUENCY HZ

SPL - SOUND PRESSURE LEVEL DB RE 2E-5 PA

MICROPHONE: MP 4 (PITCH ANGLE: 21.6 DEG)

		+			-	DATA-	POINT /	RUN			+
+	+	HC	-1 /	39		HC	-2 /	40	 +	+	!
H!	N	F	SPL	SPLA		F	SPL	SPLA		SPL	SPLA
•	1	•	110.6	88.1	į	•	118.5	: :		!	İ
•	2		108.6	95.2	ļ	•	:	105.8	1	!	
1	3		•	102.3	ļ	•	120.2	111.6	!	ļ	
•	4	Ī.	:	103.4	ļ	•	:	114.4	1	1	
•	5	:	:	103.8	ŀ	1	•	116.4	1	1	
•	6	•		102.7	ļ	Ī	•	116.4	1	1	
	7	:	:	102.7	ļ	630.0	:	117.6	1	1	
:	8	•	•	102.6	1	720.0		117.9	1		! ! !
1 10	9 0	•	•	100.8 100.3	ł	810.0 900.0	:	117.9 118.7	<u>}</u>	1	i i
1 1	:	880.0	99.5	98.7	l	:	:	117.1		! !	! !
1 1:	:	1 960.0	97.0	97.0	i	:	:	117.1	¦	<u> </u>	
1 13		1040.0	96.4	96.4	1	1170.0		117.0	¦	! 	
1 14	. :	1120.0	95.2	95.2	i	1260.0	:	117.6	i	! [
1.1	_ :	1200.0	90.5	91.1	ï	1350.0	:	115.0	i	1	j
1		1280.0	89.1	89.7	i	•		114.6	i	1	
1		1360.0	88.1	88.7	i	:	•	112.4	i	i	
1 18		1440.0	85.2	86.2	i	:	!	110.9	i	i	i i
1 19		1520.0	81.3	82.3	•	:	,	111.3	i	i i	i i
1 20		1600.0	80.7	81.7	- :	•	•	109.5	i	j	i j
2		1680.0	78.2	79.2	İ			106.7	j	İ	ĺ
2:		1760.0	72.4	73.4	İ			107.9	İ	į į	ĺ
2:	3	1840.0	72.0	73.2	Ĺ	2070.0	105.1	106.3	Ì	ĺ	İ
1 24	4	1920.0	70.2	71.4		2160.0	103.2	104.4	1	i I	l l
1 25	5	2000.0	66.3	67.5	1	2250.0	104.8	106.1]		
26	6	2080.0	0.0	0.0	1	2340.0	103.4	104.7	1		
2	7	2160.0	0.0	0.0	1	2430.0	103.6	104.9	1		
28	B	2240.0	0.0	0.0		2520.0	104.4	105.7	1		
29		2320.0	0.0	•				104.5	!		
30		2400.0	0.0	0.0	1			103.5	ļ		
3	,	2480.0	0.0	0.0	ļ		103.3			[!
		2560.0				2880.0					!
		12640.0				2970.0			1		
•		2720.0				3060.0		, ,	1	[ļ
•		•	0.0		-	3150.0			1		ļ
•	-	2880.0	:	•	- 7	3240.0]		!
,		2960.0 3040.0	:	-	•		99.1 98.8	' :	1		ļ
•		3120.0	•					100.0 99 4	‡ }) [
		3200.0				3600.0					l i
		+		•		,	ļ.	,	 	ı }	1 +
+		· 	+			· 			+	, ++	·+
i	0.	ASPL	118.1	112.3] [130.5	128.8	 		ĺ
+									+	-	

F - FREQUENCY HZ

SPL - SOUND PRESSURE LEVEL DB RE 2E-5 PA

SPLA - A-WEIGHTED SOUND PRESSURE LEVEL DBA RE 2E-5 PA

MICROPHONE: MP 4 (PITCH ANGLE: 21.6 DEG)

	•	+ 			_	DATA-	POINT /	RUN	_			
		HC	-1 /	39	(-2 /		ł			1
+	-+-	+	+	+ SPLA	÷	+	+	+ SPLA	+.	F	SPL	SPLA
+	-+	+	+	+	+	+	+	++	+.		+	
•	-	•	110.6	95.2	1	•	118.5 116.7	99.4 105.8	:)]
3	- :	:	1100.0	•	1		•	1111.6	:		! 	ļ
4	- :	•	Ī.	103.4	1		:	114.4	1		}	
5	•		1	103.8	i	450.0	•	116.4	ì		1	
j 6	- :	•		102.7	i	:	. .	116.4	i		i	i
j 7	j	_	2	102.7	i			117.6	i		i	i
8	· j	640.0	104.5	102.6	Ĺ	720.0	118.7	117.9	İ		İ	i
9	1	720.0	101.6	100.8	1	810.0	118.7	1117.9	1			j
10	1	800.0	101.1	•	1	900.0	118.7	118.7	ļ			j
11	•	•	99.5	•	-		•	117.1	-		}	1
12	•	960.0	97.0	•	•	1080.0			ļ			1
13	•	1040.0	•	•	•	1170.0	•		ļ			Ì
1 14	:	1120.0	•	:	•	1260.0	•	• •	1	,	[į
1 15	•	1200.0	90.5	•	•	1350.0	•		1			į
1 16		1280.0	89.1		•	1440.0	•		1			ļ
1 17		1360.0 1440.0	88.1 85.2			1530.0 1620.0	1111.4		!] 	1
1 19	- 1	1520.0	81.3	82.3	•			1111.3	ļ			1
20		1600.0	•		•			109.5	ì			j
21		1680.0		•	•			106.7	i		i	i
j 22		1760.0	72.4					107.9	i		i	i
23	j	1840.0	72.0	73.2	П		105.1	106.3	İ	ĺ	i	í
24	1	1920.0	70.2	71.4	H	2160.0	103.2	104.4	ĺ	1	İ	Ì
25	1	2000.0	66.3	67.5	11	2250.0	104.8	106.1		1	1	1
26	- :	2080.0	0.0		٠.			104.7		1	,	1
27	:	2160.0	0.0			'		104.9	ļ	Ì	!	1
28		2240.0	0.0	•				105.7	!		İ	!
29		2320.0	0.0		•			104.5	1	1	1	ļ
30 31	•	2400.0 2480.0	0.0 0.0		•		ļ!	103.5 104.6	! !	ļ		
•	•	2560.0	•			2880.0			1	1	· 1	ļ
		2640.0				2970.0				l I	·	1
		2720.0				3060.0			l	, i	i	i
		2800.0				3150.0			i	j	j	i
		2880.0				3240.0			i	ì	í	5
		2960.0			•	3330.0				į	i	ì
•		3040.0				3420.0			-	į	i	i
39	1	3120.0	0.0	0.0	H	3510.0	98.2	99.4	1	İ	j	į
		3200.0			•	3600.0				1	ĺ	İ
+	-+-		⊦					•	+ -		+	+
+		ant			• •				•			+
1		SPL				} 						!
+			r		++			r -	+ -	+	+	+

- FREQUENCY HZ

SPL - SOUND PRESSURE LEVEL DB RE 2E-5 PA SPLA - A-WEIGHTED SOUND PRESSURE LEVEL DBA RE 2E-5 PA

MICROPHONE: MP 5 (PITCH ANGLE: 21.6 DEG)

	DATA-POINT / RUN									
++	HC	-1 /		HC	-2 / +			+	 ++	
HN	F	SPL	SPLA	• •	SPL	SPLA	F	SPL	SPLA	
1 1	•	111.1	•	: :	119.3			!		
2		108.0		: :	•	106.0		!	!!!	
3	Ĭ.	106.8	98.2	: :		1111.3	[]		
4			104.8	. •		115.9		<u> </u>	[[
5		•	101.0			1111.7	1	ļ 1	!!!	
6		:	99.1		•	115.4	}	[! ! ! !	
7	Ĭ.		1101.6		1118.7	· :		[! ! ! !	
8		103.3	•	: :	1116.4	•		! !	; 1 ; 1	
9		98.3 98.6	97.5		115.7 116.2	•	!	[]		
10	:	1 95.4	•	900.0 990.0		1115.2	i i I I	; 	ı ! !	
1 12 1	960.0	95.4	:	! !		1111.3	; ; 	! 	ı l 1	
1 1	1040.0	92.7	1		1	1111.5	: : 	! 	, ! 	
	1120.0	88.9	•	: :		113.4		[, 	
	1200.0	89.8	•	! !		109.3			i i	
	1280.0	87.0	•	: :		1111.9	ii	, 	i i	
	1360.0	84.2	•	1530.0	•	107.9	ij		i	
•	1440.0	80.5	•		:	107.1	i i	ĺ	İ	
•	1520.0	80.7		1710.0	•	107.8	i		Ì	
20	1600.0	76.6		1800.0	102.9	104.1	11	į	İ	
	1680.0	73.1	-	1890.0	102.4	103.6		ĺ	ĺ	
	1760.0	0.0	0.0	1980.0	103.0	104.2	İ			
23	1840.0	0.0	0.0	2070.0	99.7	100.9	11			
24	1920.0	0.0	0.0	2160.0	101.0	102.2	11			
25	2000.0	0.0	0.0	2250.0	99.6	100.9	11		[
26	2080.0	0.0	0.0	2340.0	97.6	98.9	11			
	2160.0	0.0	•		•	101.5			[
	2240.0	0.0	•	2520.0	96.6	97.9			!!!	
• ,	2320.0	0.0	0.0	2610.0	95.9	97.2				
	2400.0	0.0	•	2700.0	•	101.0				
	2480.0	0.0		2790.0	94.5	95.8] !		
	2560.0		1	2880.0	95.5			! 	i İ	
, ,	12640.0	1 0.0	•	2970.0 3060.0	•	100.0]]		
•	12720.0		0.0	3060.0 3150.0	92.8 95.0	94.0 96.2	 	 		
	2800.0 2880.0	0.0 0.0	0.0	3150.0 3240.0	93.0	95.2	1] 	i i	
•	12860.0 12960.0	0.0	0.0	3240.0 3330.0	90.6	93.5				
	3040.0	0.0	•	3530.0 3420.0	92.8	94.0		i 	: I I	
	3120.0	0.0	•		90.1	91.3		· 	! 	
	13120.0 13200.0		•		88.5				i i	
++	+	,	•	++	•	•	· • -+	· 	, +	
+		+	+	++	+	++	-+		+	
j ()	ASPL	117.1	110.5		129.0	[126.3]				
· +		•			•		-+	·	+	

F - FREQUENCY HZ

SPG - SOUND PRESSURE LEVEL DB RE 2E-5 PA

SELA - A-WEIGHTED SOUND PRESSURE LEVEL DBA RE 2E-5 PA

AND ALLEGO SERVICES STATES OF THE SERVICES SERVICES

MICROPHONE: MP 6 (PITCH ANGLE: 21.6 DEG)

	DATA-POINT / RUN											
+	-+	HC-	-1 /	39 +		нс	-2 /	40	 		+	; ++
HN	 -	F	SPL	SPLA	 -	F +	SPL	SPLA		F	SPL	SPLA
1	į	:	85.9	•		:	97.1	78.0	İ			
2	-	160.0	77.1	:	ļ		98.1]		j 1	1
3	1	:	0.0 0.0	-	 	:	96.8 95.9	88.2			l 1 i	
1 5	!	:	0.0		 	•	87.8	84.6				
6		:	0.0	:			93.3	90.1	 			
7	i	:	0.0	ž.	:	630.0	90.2	88.3				i
1 8	i		:	:	i			83.4	i		i	i
j 9	i				i			89.1	i		i	i
10	İ	800.0	0.0		İ	900.0	86.1	86.1	İ		İ	İ
] 11	j	880.0	0.0	0.0	ļ	990.0	80.6	80.6	1			!
1 12	1	960.0	0.0	0.0		1080.0	85.0	85.0	1			
13	1	1040.0	0.0	0.0		1170.0	81.1	81.7	1			ļ
14	- 1	1120.0	0.0	•		1260.0	76.5	77.1	ļ			ļ
15	•	1200.0	0.0		: :	1350.0	77.9	78.5	ļ			
16		1280.0	•	•	:	1440.0	75.8	76.8	ļ			
17	- 1	1360.0	0.0	:	•	1530.0	72.7	73.7	-		 	İ
1 18		1440.0	0.0	:		1620.0	63.9	64.9	ا 1			l I
1 20	- 1	1520.0 1600.0	0.0 0.0	:	:	1710.0 1800.0	74.0 63.1	75.0 64.3	1		;	/
21		1680.0			:	1890.0	65.1	66.3	ì		! 	
1 22	- :	1760.0			:	1980.0	67.4	68.6	i			i i
23	•	1840.0	0.0		:	2070.0	57.3	58.5	i		i	į
24	- :	1920.0	0.0	0.0	:	2160.0	0.0	0.0	i		i	j
25	Ĺ	2000.0	0.0	0.0	: :	2250.0	0.0	0.0	İ			İ
26	1	2080.0	0.0	0.0		2340.0	0.0	0.0	1	!		1
27	•	2160.0	0.0	0.0		2430.0	0.0	0.0	1			1
28	- :	2240.0	0.0			2520.0	0.0	0.0	ļ		ļ	1
29		2320.0	0.0	I		2610.0	0.0	0.0				
30		2400.0	0.0	•		2700.0	0.0	0.0	1		l	ļ
•		2480.0	0.0			2790.0	0.0			ļ	[
		2560.0				2880.0	0.0				 	l 1
		2640.0 2720.0				2970.0 3060.0			- :		 	1
•		2800.0				3150.0			i		ŀ	1
	- 1	2880.0				3240.0	0.0		i			1
•	- 1	2960.0				3330.0	0.0		i		i	Ì
	•	3040.0			,	3420.0	0.0		į		İ	i
		3120.0		0.0	ı	3510.0		0.0	Ì	1		ĺ
		3200.0		0.0		3600.0	0.0		1	1		ŀ
+	+-	+									++	+
+						·				·	+ +	++
ļ	O.	ASPL										
+				r					+			+

F - FREQUENCY HZ

SPL - SOUND PRESSURE LEVEL DB RE 2E-5 PA SPLA - A-WEIGHTED SOUND PRESSURE LEVEL DBA RE 2E-5 PA

MICROPHONE: MP 7 (PITCH ANGLE: 21.6 DEG)

	+			DATA-	POINT /	RUN			-
+	HC	-1 /		HC	-2 /			+	 + -
HN	F	SPL	SPLA	•	SPL		. 1	SPL	SPLA
	: :	103.8	•	• •	115.5	:			
•	160.0	0.0	1	180.0	0.0	•		ļ	!!!
	240.0	0.0	•	1 270.0	0.0	!			
	320.0 400.0	0.0	:	360.0 450.0	0.0	!		1] [
· .	1 480.0	<u>.</u>	0.0	540.0	0.0	0.0)	i 	!
•	560.0		:	630.0	0.0				
8	640.0	1	:	720.0	0.0	0.0	ii	i	i i
9	11 720.0	0.0	0.0	810.0	0.0	0.0	İİ	ĺ	İ
10	800.0	0.0	0.0	900.0	0.0	0.0	11	1	
	880.0	:		990.0	0.0	0.0		ļ	
12	960.0	:	_	1080.0	0.0	0.0	! !	1	
	1040.0	0.0	:	[[1170.0	0.0	0.0] [1	 	
	1120.0 1200.0	0.0	0.0 0.0	1260.0 1350.0	0.0 0.0	0.0 0.0		 	
	1280.0	0.0	:	11440.0	0.0	0.0		! !	
	11360.0	0.0	•	1530.0	0.0	0.0		' 	
*	1440.0	0.0	:	1620.0	0.0	0.0	i	i	i
19	1520.0	0.0		1710.0	0.0	0.0	İ	j i	İ
20	1600.0	0.0	0.0	1800.0	0.0	0.0		}	1
	1680.0		•	1890.0	0.0	0.0	!		1
	1760.0		:	1980.0	0.0	0.0	!		!
	1840.0	0.0		2070.0	0.0				ļ
	1920.0 2000.0	0.0		2160.0 2250.0	0.0 0.0	0.0 0.0	1	l l	l 1
	2080.0	0.0		12340.0	0.0	0.0	1	: I	!
	2160.0	0.0		2430.0	0.0	0.0	i	, 	,
	2240.0	0.0	•	2520.0	0.0		i		i
29	12320.0	0.0	0.0	2610.0	0.0	0.0	j	j	į
	12400.0	0.0		2700.0	0.0	0.0	1		1
	2480.0	0.0		2790.0	0.0		[[ļ
	2560.0			2880.0 2870.0					!
	2640.0 2720.0			2970.0 3060.0	0.0 0.0				1
	2500.0	0.0		3060.0 3150.0	0.0 0.0	0.0 0.0		 	l F
	2880.0	0.0		3240.0	0.0	:	1		1
	2960.0			3330.0	0.0		<u> </u>		ì
	3040.0			3420.0	, ,	! !	: :		j
	3120.0			3510.0	0.0		: :	i	i
	13200.0			[]3600.0		•			1
				-		 	·+	- +	
j c	ASPL	103.8	81.3		115.5	96.4	1	- -	1
+	4	- -		+	+	· - -	+	·+	·+

F - FREQUENCY HZ

SUL - SOUND PRESSURE LEVEL DB RE 2E-5 PA

SPLA - A-WEIGHTED SOUND PRESSURE LEVEL DBA RE 2E-5 PA

MICROPHONE: MP 9 (PITCH ANGLE: 21.6 DEG)

	+				DATA-	POINT /	RUN	_			+
+	 HC	-1 /			нс	-2 /	40	1	1	.	
HN	F	SPL			F		SPLA	ļ	F	SPL	SPLA
1	• •	37.2	<u>:</u>	: :		34.0	-	•	•		
2	11	•		: :	180.0	•	:	•	•		!
	1 240.0	•	Ī	: :	270.0						<u> </u>
:	!!	0.0	:	: :	360.0			:	1		1
5	11.	:	:	: :	450.0			•	r		
6 7	480.0 560.0	:	:	: :	540.0 630.0		•				
8	640.0	:	1	: :	720.0	0.0] 		
	11 720.0	1	1	: :	810.0	0.0		1	! 		
:	800.0	•	•		900.0	0.0		:	•		i
•	880.0	0.0	-	: :	990.0	0.0		i	:		
	960.0	1	•		1080.0			i	<u>'</u>		
•	1040.0	•			1170.0			:	:		i
14	11120.0	0.0	0.0	Ħ	1260.0	0.0	0.0	ĺ	ĺ	ĺ	İ
15	[[1200.0	0.0	0.0	Н	1350.0	0.0	0.0				
16	1280.0	0.0	0.0	П	1440.0	0.0		•	•		
	1360.0	:	•		1530.0						ļ
	1440.0	:		: :	1620.0			ļ			ļ
	1520.0			: :	1710.0			ļ.,			
	1600.0			: :	1800.0						
-	1680.0				1890.0						1
:	1760.0	:			1980.0						1
- 1	1840.0	:			2070.0 2160.0					<u> </u>	
•	1920.0 2000.0	:			2250.0			 		 	
:	[2080.0	:			2340.0	•					
	2160.0			: :	2430.0			ij		1	i
•	112240.0				2520.0	•		ij			ì
•	2320.0	:			2610.0			ΙÏ		i	i
30	2400.0	0.0	0.0	ij	2700.0	0.0	0.0	ij		į	į
	2480.0	0.0			2790.0			l		į	į
32	2560.0	0.0					0.0			l	1
	2640.0				2970.0					İ	
•	2720.0				3060.0	•					ļ
•	2800.0				3150.0	•		֓֞֝֟֝֟֝֟֓֓֓֓֓֓֓֓֓֟֟֝֓֓֓֓֓֓֓֓֓֓֡֟		ļ	ļ
•	1 2880.0				3240.0					ļ	ļ
	112960.0	: :			3330.0						
-	3040.0				3420.0 3510 0			: :		}	
•	3120.0 3200.0				3510.0 3600.0			: :			
•	3200.0 +	0.0 	0.0 			•		. I ⊢-∔	 	 +	 +
+					+	,		. , H		++	·+
(37.2	14.7		I	34.0	14.9				<u> </u>
Ŧ		r1						-			+

F - FREQUENCY HZ

SPL - SOUND PRESSURE LEVEL DB RE 2E-5 PA

MICROPHONE: MP 1 (PITCH ANGLE: 20.7 DEG)

3 2 4 2 5 3 6 4 7 4 8 5 10 7 11 7 12 8 13 9 14 9 15 16 16 11 16 16 16 16 16 16 16 16 16 16 16 16 16 16 16 16 16 16 16 17 16 17 16 17 16 17 16 17 16 17 16 17 16 17 16 17 16 17 16 17 16 17 16 17 16 17 16 17 16 17	TC	SPL 103.0	+ SPLA +	 	-2 / +	++	÷	-3 /	43 +
1 2 1 3 2 1 3 2 1 3 2 1 3 1 1	70.0 140.0 210.0 280.0	103.0	SPLA	F	l SPL	Lodea I		:	•
2 1 3 2 4 2 5 3 6 4 7 4 8 5 9 6 10 7 11 7 12 8 13 9 14 9 15 10	140.0 210.0 280.0			++		•	F	SPL	SPLA
3 2 4 2 5 3 6 4 7 4 8 5 10 7 11 7 12 8 13 9 14 9 15 16 17 16 17 16 17 16 17 16 17 16 17 16 17 16 17 16 17 16 17	210.0 280.0	י ד דמי	76.8	• •	105.5	•	90.0	113.0	93.9
4 2 2 3 6 4 4 7 4 4 8 5 6 6 7 6 6 7 6 7 6 7 7	280.0 j	97.7	•	• •	109.6	96.2	•	•	106.0
5 3 4 5 6 4 4 5 10 7 11 7 12 8 13 9 14 9 15 16		95.0	•	• •	105.3		•	•	103.4
6 4 4 7 4 4 8 5 5 6 10 17 12 18 13 19 14 15 10 16 11 16	350.0	90.3		• •	101.9	•	•	•	107.7
7 4 5 6 10 7 11 7 12 8 13 9 14 9 15 16 16 16 16 16 16 16 16 16 16 16 17 16 16 17 16 17 16 17		86.9		: :	100.5	95.7	*	:	107.4
8 5 9 6 6 10 7 7 11 7 12 8 13 9 14 9 15 10 16 11 16	420.0	79.6	74.8	480.0	96.2	93.0	•	•	105.1
9 6 10 7 11 7 12 8 13 9 14 9 15 10	490.0	75.8	72.6	560.0	91.8	88.6	•	•	105.3
10 7 11 7 12 8 13 9 14 9 15 10	560.0	61.2		640.0	86.1	84.2	•		107.0
11 7 12 8 13 9 14 9 15 10	630.0	0.0		720.0	88.5	87.7	•	,	103.8
12 8 13 9 14 9 15 10	700.0	0.0	0.0	800.0	82.7	81.9	•	•	104.0
13 9 14 9 15 10 16 11	770.0	0.0	0.0	880.0	73.8	73.0		,	102.9
14 9 15 10 16 11	840.0	0.0		960.0	79.7	•	•	•	100.3
15 10 16 11	910.0	0.0	:	1040.0	75.4		1170.0	95.7	96.3
16 11	980.0	0.0	•	11120.0	71.9	• •	1260.0	96.6	97.2
1 1 1		0.0		1200.0	63.3	•	1350.0	94.5	95.1
	120.0	0.0	: '	1280.0	63.1	•	1440.0	90.4	91.4
: ::	190.0	0.0	•	1360.0	66.2	:	1530.0	92.5	93.5
	260.0	0.0		1440.0	49.1		1620.0	88.5	89.5
1 1 1	330.0	0.0	•	1520.0	0.0	•	1710.0	83.6	84.6
	400.0	0.0		11600.0	0.0	•	1800.0	81.7	82.9
	470.0	0.0	. ,	1680.0	0.0	•	1890.0	0.0	0.0
	540.0	0.0		11760.0	0.0		1980.0	0.0	0.0
1 1 1	610.0	0.0		1840.0	0.0		2070.0	0.0	0.0
	680.0	0.0		1920.0	0.0		12160.0 12250.0	0.0	0.0
	750.0	0.0		2000.0	0.0		2250.0 2340.0		0.0
	820.0 890.0	0.0		2080.0 2160.0	0.0	•	2430.0	0.0	0.0 0.0
1 1 1	960.0	0.0		2240.0	0.0 0.0	•	12520.0	0.0	0.0
: ::	030.0	0.0		2320.0	0.0		2610.0	0.0	0.0
	100.0	0.0	0.0	2400.0	0.0		2700.0	0.0	0.0
	170.0	0.0		2480.0	0.0	•	2790.0	0.0	0.0
$\begin{vmatrix} 31 & & & & & & & & & & $,	2560.0	•	•	2880.0	•	•
33 23				2640.0			2970.0		
34 23	•	•		2720.0	•		3060.0	•	0.0
35 [24	•			2800.0	•	•	3150.0		0.0
	520.0			2880.0	•		3240.0		0.0
	590.0			2960.0	•	! :	3330.0		0.0
	660.0			3040.0	•		3420.0	•	0.0
		0.0		3120.0					0.0
40 [[28									
	300.0 l	U.U I	1 U.O I	[3200.0	[0.0]	0.01	[3600.0	0.0	0.0
+				3200.0 -+					•
OASP	- + +	-	 		+	+	+ +	+ +	+

F - FREQUENCY HZ

SPL - SOUND PRESSURE LEVEL DB RE 2E-5 PA SPLA - A-WEIGHTED SOUND PRESSURE LEVEL DBA RE 2E-5 PA

MICROPHONE: MP 2 (PITCH ANGLE: 20.7 DEG)

		+			DATA-	POINT /	RUN			
4-		 I(C-1 /	41	IC	-2 /	42	IC	-3 /	 43 ++
	HN	F	SPL	SPLA	F	SPL	SPLA	F	SPL	SPLA
į	1	70.0	106.3	80.1	80.0	1109.2	86.7	•	114.8	
-	2 3	140.0	104.3	88.2	160.0 240.0	110.8 109.1	97.4 100.5	•	•	104.3 109.6
1		210.0 280.0	99.7	88.8 88.8	1 320.0	107.5	100.5		•	110.6
}		350.0	92.0	85.4	320.0	107.3	100.5	•	•	115.4
1		420.0	89.1	84.3	480.0	105.5		•	•	116.0
i		490.0	86.6	83.4	560.0	102.0			•	115.0
i		560.0	82.4	79.2	640.0	98.6	:	•	•	114.8
i	_	630.0	75.2	73.3	720.0	95.7	: :	•		115.8
i		700.0	70.5	68.6	800.0	97.0	•	•	•	116.6
i		770.0	69.4	68.6	880.0	94.4		•	:	113.8
i		840.0	66.5	65.7	960.0	91.2		•	112.5	j112.5 j
i	13	910.0	62.7	62.7	1040.0	87.8	: :	1170.0	112.2	112.8
į	14	980.0	50.4	50.4	11120.0	86.0	86.0	1260.0	112.4	113.0
ĺ	15	1050.0	0.0	0.0	1200.0	84.2	84.8	11350.0	109.8	110.4
İ	16	11120.0	0.0	0.0	1280.0	81.0	81.6	1440.0	108.9	109.9
		1190.0	0.0	0.0	1360.0	77.8	78.4	•	•	108.9
		1260.0	0.0	•	1440.0	74.3	75.3	•	•	107.7
1		1330.0	0.0	•	1520.0	73.1	•	•	•	105.6
•		11400.0	0.0	-	1600.0	70.1		•	•	103.3
		1470.0	0.0	•	1680.0	64.3	:	•	•	103.6
•		1540.0	0.0	:	1760.0	61.9	:	•	102.2	103.4
•		1610.0	0.0	Ī.	1840.0	57.4	•	2070.0	99.8	101.0
•		1680.0	0.0		1920.0	57.5		2160.0	98.0	99.2
:		1750.0	0.0	0.0	2000.0	0.0		2250.0	98.1	99.4
		1820.0	0.0	0.0	2080.0	0.0		2340.0	97.8	99.1
•		1890.0 1960.0	0.0	0.0	2160.0	0.0		2430.0 2520.0	96.3 95.7	97.6 97.0
•		[]2030.0	0.0	•	2240.0 2320.0	0.0		2610.0	97.7	99.0
•		2000.0	0.0	•	2400.0	0.0		2700.0	96.2	97.5
•		2170.0	0.0	•	1 2480.0	0.0		2790.0	92.8	94.1
•		2240.0	•	•	2560.0	•		2880.0	•	94.9
		[2310.0	_		2640.0			2970.0	1	
•		2380.0	•		2720.0		: :	3060.0	•	
•		1 2450.0	•		2800.0	:	•	3150.0	•	
•		2520.0	•		2880.0	0.0	•	3240.0	-	: .
•		: :	0.0	:	2960.0	0.0	0.0	3330.0	92.5	93.7
		2660.0	•	0.0	3040.0	0.0	0.0	3420.0	90.1	91.3
		2730.0		0.0	3120.0	0.0	0.0	3510.0	87.7	88.9
		2800.0			3200.0			3600.0		
+-					++					
+-					++					
1	(DASPL	109.4	ן 95.1	 +	[116.5]	109.2	1		125.8
+-			+	+	++	+	T1	-+		++

F - FREQUENCY HZ

SPL - SOUND PRESSURE LEVEL DB RE 2E-5 PA

MICROPHONE: MP 3 (PITCH ANGLE: 20.7 DEG)

+ HN + 1	-+ -+	 IC +	-1 /									
+	 -+		+	41 +	 +-	IC	-2 / +	42		IC	-3 /	43
1 1		F	SPL	SPLA		F +	SPL	SPLA	i I	F	SPL	SPLA
	1		107.6	:	į	80.0	112.7	90.2		90.0	116.7	97.6
2	ļ	140.0	105.1	89.0	!	160.0	111.1	97.7		180.0	117.6	106.7
3	ļ	210.0	101.2	90.3	!	240.0	110.8	102.2	ļ	270.0	117.6	109.0
4	1	280.0	97.5	88.9	ļ.,	320.0	108.6	102.0	ļ	360.0	1119.7	1114.9
5		350.0	94.1	87.5	!	400.0	109.5	104.7	ļ	450.0	119.0	115.8
6	-	420.0	92.3	87.5		480.0	106.6	103.4	ļ	540.0	117.5	114.3
1 7			88.0	84.8		560.0	103.7	100.5	ļ	630.0	117.7	115.8
8	!	•	83.2	80.0		640.0	102.7	100.8	!	720.0	119.0	118.2
9			81.7	79.8		720.0	101.5	100.7			117.2	116.4
10		:	78.5	76.6		800.0	98.4	97.6		•		117.4
112	1	:	73.9	73.1	1 1	880.0	98.0	97.2		•		117.4
1 13	1	910.0	71.3	70.5 65.8		960.0	95.9	•	•	:	•	1115.9
1 14	1	980.0	65.8	:	: :	1040.0	93.6		•	•	•	1115.5
1 15	1	1050.0	0.0	0.0		1120.0	89.6			•	•	1117.5
16		1120.0	0.0	0.0	: :	1200.0	89.0	:		:		1114.7
1 17	- 1	1120.0	0.0	0.0	: :	1280.0	88.0 82.2	: '	' '	•	•	114.1
1 18		1260.0	0.0	0.0	: :	1360.0	80.6	:		1530.0	•	114.3
19		1330.0	0.0			1440.0 1520.0	77.9	:		1620.0		113.9
20		1400.0	0.0	•		1600.0	76.9	: ·			-	109.6
21		1470.0	0.0			1680.0	72.3	•			:	108.0
22		1540.0	0.0	:	: :	1760.0	68.9	:			:	107.8
23		1610.0	0.0	0.0		1840.0	67.3				•	105.2 101.9
24		1680.0	0.0	:		1920.0	66.5					101.9
25	- 1	1750.0	0.0		٠.	2000.0	66.1	•				104.2
26		1820.0	0.0			2080.0	61.2				:	103.2
27		1890.0	0.0	0.0		2160.0	58.9		•		•	105.6
28	- 1	1960.0	0.0	0.0	, ,	2240.0	0.0					106.7
29	- 1	2030.0	0.0	0.0	•	2320.0	0.0	0.0			-	106.0
30		2100.0	0.0			2400.0	0.0	0.0	i			104.6
31		2170.0	0.0	0.0		2480.0	0.0		i			104.0
		2240.0				2560.0				2880.0		
		2310.0				2640.0				2970.0		
		2380.0				2720.0				3060.0		
		2450.0				2800.0				3150.0		96.4
-		2520.0				2880.0				3240.0		
		2590.0				2960.0				3330.0		
		2660.0				3040.0				3420.0		
		2730.0				3120.0				3510.0		
		2800.0				3200.0		0.0	1	3600.0	101.8	102.8
 	UA	SPL	110.6	96.5	1		118.6	111.6	1	 	129.8	128.2

F - FREQUENCY HZ

SPI, - SOUND PRESSURE LEVEL DB RE 2E-5 PA

MICROPHONE: MP 4 (PITCH ANGLE: 20.7 DEG)

		+ 			-	DATA-	POINT /	RUN	_			
+	-+	l IC	-1 /	41		IC	-2 /	42		IC	-3 /	43 ++
HN	- -	F	SPL	SPLA	 -	F +	SPL	SPLA	 -	F +	SPL	SPLA
1 1	•	-	109.3	83.1		•	116.4	93.9		•	117.5	98.4 105.0
3		140.0	100.1	90.0	1	•	111.9 112.8	98.5 104.2	ŀ	•	•	1111.0
4			99.9	91.3		•	•	104.4	l I	•	•	1113.9
5	•	:	95.1	88.5	i	400.0	•	104.1	i	•	•	115.9
6	•	<u> </u>	91.7	86.9	i	•	•	103.6	i	•	•	116.2
j 7	. :	-	88.4	85.2	i	•	1	103.2	i	•	•	117.4
j 8	- :		<u>:</u>	82.9	i	•	•		i	•	118.4	117.6
j 9	•		83.3	81.4	Ĺ	720.0	•	100.4	ĺ	•	118.8	118.0
10	ı İ	700.0	78.6	76.7	İ	800.0	100.6	99.8	İ	900.0	118.5	118.5
11	- 1	770.0	77.3	76.5	Ĺ	880.0	98.5	97.7	ĺ	990.0	116.9	116.9
12	1	840.0	72.1	71.3	1	960.0	96.3	96.3		1080.0	118.0	118.0
13		910.0	66.4	66.4	1	1040.0	94.5	•	•	•	116.5	117.1
14		980.0	60.0	60.0		1120.0	93.8				•	115.6
15		1050.0	0.0	0.0	•	1200.0	89.8	•	•	•	•	115.1
16	•	1120.0	0.0	0.0	•	1280.0	86.0	•	•	•	•	114.6
17	•	1190.0	0.0			1360.0	86.6	•	•		•	112.4
18	•	1260.0	0.0			1440.0	82.7		•	•	•	111.0
1 19	•	1330.0 1400.0	0.0 0.0	•	•	1520.0 1600.0	78.8 76.7			:	•	111.5 109.4
20		1470.0	0.0 0.0	0.0	•	1680.0	75.2		•	•	•	109.4
22		1540.0	0.0	0.0	•	1760.0	72.9	•	: '	:	•	107.8
23	•	1610.0	0.0	0.0	•	1840.0	68.5	-		:	104.8	106.0
1 24		1680.0	0.0	0.0	•	1920.0	65.7	•	•	•	•	103.9
j 25		1750.0	0.0	0.0	•	2000.0	64.4		•	2250.0	:	105.7
26		1820.0	0.0	0.0	Ü	2080.0	57.5	58.7		2340.0	103.1	104.4
27	•]1890.0	0.0	0.0		2160.0	0.0	•		•	•	104.6
28	•	1960.0	0.0	•	•	2240.0	0.0	•	•	•	•	105.9
29		2030.0	0.0			2320.0	0.0		•	•	•	104.5
30		2100.0	0.0	•	•	2400.0	0.0					103.8
31		2170.0	0.0	•	•	2480.0	0.0			•	•	105.2
		2240.0	0.0			2560.0	0.0			2880.0		
•		2310.0				2640.0	0.0			2970.0		•
:	- 1	2380.0	0.0 0.0		•	2720.0 2800.0	0.0			3060.0 3150.0		
35	•	2450.0 2520.0				2880.0	0.0			3240.0		
•		2590.0				2960.0	0.0			3330.0		102.0
38	•	2660.0				3040.0	0.0			3420.0		•
•		2730.0	•			3120.0				3510.0		
•	•	2800.0				3200.0				3600.0	•	
÷	-+-				+-1			+	Н	·		+
+											·	++
1		ASPL										128.7
+			+		+-		h	+	Н	+		++

F - FREQUENCY HZ
SPL - SOUND PRESSURE LEVEL DB RE 2E-5 PA

MICROPHONE: MP 5 (PITCH ANGLE: 20.7 DEG)

	<u>+</u>			DATA-	POINT /	RUN			
+	l I IC	-1 /		IC	-2 /	•	IC	-3 /	43 +
HN	F	SPL	SPLA	• •	SPL	SPLA		SPL	SPLA
1 1		110.1	83.9		118.1	95.6	•	118.0	98.9
2	•	106.4	•	• •	113.3	99.9	•	•	104.8
	210.0	98.7	•	1 240.0	:	102.1	•	119.0	110.4
1 :	280.0	99.1	90.5	320.0	114.0	107.4	360.0	120.0	115.2
,	350.0	97.1		400.0	109.1	104.3	•	114.6	111.4
	420.0	89.5	84.7	480.0	1	100.6	•	118.1	1114.9
	490.0	86.5		1 1		102.7			116.4
	560.0	84.3	81.1	640.0		102.3	•	•	115.3
	630.0	81.5	79.6	720.0	99.3	98.5	•	•	114.5
	700.0	77.1	75.2	800.0	97.5	96.7	•		116.2
1	770.0	72.0	71.2	880.0	95.5	94.7		•	115.7
	840.0	68.4	67.6	960.0	95.6		•	•	111.1
	910.0	64.7	•	1040.0	92.3	•		•	1114.7
	980.0	61.6		1120.0	88.5		•		113.5
	11050.0	53.6	:	11200.0	88.1		11550.0		1109.4
	11120.0	0.0	0.0	1280.0	86.8		11440.0	1111.0	112.0
. ,	11190.0	0.0	0.0	[[1360.0]	80.5		•	:	107.9
	11260.0	0.0	0.0	1440.0	79.4		•	106.1	107.1
	11330.0	0.0	0.0	11520.0	78.3		•		107.9
	11400.0	0.0	:	1600.0	72.1		•	:	1104.1
	11470.0	0.0			70.4		•		103.6
	11540.0	j 0.0	0.0		69.1		•		104.2
	11610.0	0.0	•		67.0		•	-	100.5
	1680.0 1750.0	0.0 0.0		1920.0 2000.0	61.1	, ,	[2160.0] [2250.0]		102.0
-	1820.0	0.0		11:080.0	62.3 58.5		12340.0	93.7 97.0	101.0 98.3
	11890.0	0.0	0.0	[]2160.0	[30.3 [49.9		•		96.5 101.6
	11960.0	0.0	0.0	[[2240.0]	0.0		2520.0	96.7	1 98.0 F
•	2030.0	0.0	0.0	[12240.0]	l 0.0		12610.0	96.2	98.0 97.5
1 50 1	2100.0	0.0	0.0 0.0		0.0	•		:	97.3 101.7
	12170.0	0.0	•	1/2480.0	0.0 0.0		12790.0	95.5	96.8
	12240.0	•		2560.0			2860.0	•	
	2310.0			2540.0 2540.0			2970.0		
	2350.0			2720.0	•	•	3060.0		
	12450.0			2720.0			3150.0		
	2520.0			[[2880.0]			3240.0		
	12,00.0			2960.0	•		3330.0		
	1. no 1.0	•		3040.0	•		3420.0		
•	1731			3120.0			3510.0		93.6
	S(m, t)			3200.0					
				 					
		+	·	+		++	+	+	++
1 (1	MAPI.	112.3	97.0		121.5	112.6	}	128.4	126.1 I
				++					

F - FROMENOY HZ

SP) - SOUND PRESSURE LEVEL DB RE 2E+5 PA

SPIA - A-WEIGHTED SOUND PRESSURE LEVEL DBA RE 2E-5 PA

MICROPHONE: MP 6 (PITCH ANGLE: 20.7 DEG)

	† 			-	DATA-	POINT /	RUN	-			
+	IC	-1 /	41 +		l IC	-2 /	42 +		IC	-3 /	43 +
HN	F	SPL	SPLA	<u> </u>	F	SPL	SPLA	 -	F +	SPL	SPLA
1 1	70.0	84.5	58.3	İ	80.0	92.5	70.0	!	90.0	92.7	73.6
2	140.0	79.5	63.4	!	160.0	86.2	72.8	ļ	180.0	92.3	81.4
] 3	210.0	73.1	62.2	1	240.0	82.1	73.5	ļ	270.0	92.7	84.1
•	280.0	70.0	61.4	1	320.0	84.7	78.1		360.0	92.1	87.3
	350.0	67.6	61.0	1	400.0	80.2	75.4	ŀ	450.0	82.4	79.2
	420.0 490.0	56.6 50.9	51.8 47.7	1	480.0 560.0	73.9	•	 -		89.6 86.7	86.4
	i i	1	0.0			77.5 71.8	•	•		•	84.8
	560.0 630.0	0.0	•	1	:	62.9	:	 	•	80.1 86.8	79.3 86.0
	700.0	0.0	i		:	68.0	1	l I		82.4	82.4
	770.0	0.0		1	880.0	61.3		 		77.9	77.9
	[] 840.0	0.0	0.0	Ĺ	960.0	53.9	•	•	1080.0	81.4	81.4
13	910.0	0.0	0.0		1040.0	53.7	•	•	1170.0	77.2	77.8
14	980.0	0.0	0.0	•	1120.0	56.6	•	•	1260.0	74.7	75.3
•	1050.0	0.0	0.0	•	1200.0	40.5	•	•	1350.0	74.7	75.3
:	1120.0	0.0	0.0	•	1280.0	0.0	-	-	1440.0	72.8	73.8
- I	11190.0	0.0	0.0	•	1360.0	0.0	:	:	1530.0	70.0	71.0
18	1260.0	0.0	0.0	İ	1440.0	0.0	•	•	1620.0	61.0	62.0
19	1330.0	0.0	0.0	Ĺ	1520.0	0.0	•		1710.0	71.8	72.8
20	1400.0	0.0	0.0	Ħ	1600.0	0.0	0.0		1800.0	62.4	63.6
21	1470.0	0.0	0.0	11	1680.0	0.0	0.0		1890.0	62.3	63.5
22	1540.0	0.0	0.0	$\ \ $	1760.0	0.0	0.0		1980.0	64.3	65.5
23	1610.0	0.0	0.0		1840.0	0.0	0.0		2070.0	56.8	58.0
24	1680.0	0.0	0.0		1920.0	0.0	0.0		2160.0	57.3	58.5
25	1750.0	0.0	0.0		2000.0	0.0			2250.0	61.9	63.2
•	1820.0	0.0	0.0		2080.0	0.0	•		2340.0	58.9	60.2
•	1890.0	0.0	0.0		2160.0	0.0	•		2430.0	51.5	52.8
•	1960.0	0.0			2240.0	0.0	-		2520.0	0.0	0.0
•	2030.0	0.0			2320.0	0.0			2610.0	0.0	0.0
•	2100.0	0.0			2400.0	0.0	•		2700.0	0.0	0.0
•	2170.0	0.0			2480.0	0.0	•		2790.0	0.0	0.0
	2240.0				2560.0				2880.0		:
•	2310.0 2380.0	•			2640.0 2720.0		•		2970.0 3060.0		
	2360.0 2450.0				2800.0				3150.0		0.0 0.0
•	2520.0				2880.0				3240.0		0.0
:	2520.0 2590.0				2960.0				3330.0		0.0
•		0.0			3040.0		•		3420.0		0.0
1	2730.0	•			3120.0				3510.0		0.0
•	1 2800.0	•		• •	3200.0				3600.0		0.0
-				++				Н			}
										·	-
	DASPL					94.5	83.2	1]		94.5
+				++				Н			

F - FREQUENCY HZ

SPL - SOUND PRESSURE LEVEL DB RE 2E-5 PA

MICROPHONE: MP 7 (PITCH ANGLE: 20.7 DEG)

3 3 3 3	140.0 210.0 280.0 350.0 420.0 490.0 560.0 630.0 770.0 840.0 910.0	SPL 106.1 0.0 0.	SPLA 79.9 0.0 0.		F 80.0 160.0 240.0 320.0 400.0 480.0 560.0 640.0 720.0 800.0 880.0	SPL 	SPLA 92.1 0.0	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	+	
1 2 3 4 3 5 3 4 3 5 3 3	70.0 140.0 210.0 280.0 350.0 420.0 490.0 560.0 630.0 700.0 770.0 840.0 910.0 980.0 1050.0 1120.0 1190.0	106.1	SPLA 79.9 0.0 		F 80.0 160.0 240.0 320.0 400.0 480.0 560.0 640.0 720.0 800.0 880.0 960.0 1040.0 1120.0	SPL 114.6 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	SPLA	F 90.0 180.0 270.0 360.0 450.0 540.0 630.0 720.0 810.0 990.0 1080.0 1170.0 1260.0	110 6 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	91.5 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
2 3	140.0 210.0 280.0 350.0 420.0 490.0 560.0 630.0 770.0 840.0 910.0 980.0 1050.0 1120.0 1190.0	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	79.9 0.0 		80.0 160.0 240.0 320.0 400.0 480.0 560.0 640.0 720.0 800.0 880.0 960.0 1040.0 1120.0	114.6 0.0 0.	92.1 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	90.0 180.0 270.0 360.0 450.0 540.0 630.0 720.0 810.0 990.0 1080.0 1170.0 1260.0	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
3 4 3 4 3 3 4 3 3 3 3 3	210.0 280.0 350.0 420.0 490.0 560.0 630.0 770.0 840.0 910.0 980.0 1050.0 1120.0 1190.0	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0		240.0 320.0 400.0 480.0 560.0 640.0 720.0 800.0 880.0 960.0 1040.0 1120.0	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	0.0 0.0 1170.0 1260.0	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	
4 3 5 3 6 4 3	280.0 350.0 420.0 490.0 560.0 630.0 770.0 840.0 910.0 980.0 1050.0 1120.0 1190.0	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0		320.0 400.0 480.0 560.0 640.0 720.0 800.0 880.0 960.0 1040.0 1120.0	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	0.0 0.0 1170.0 1260.0	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	
5 6 4 7 4 8 1 9 6 1 1 1 1 1 1 1 1	350.0 420.0 490.0 560.0 630.0 770.0 840.0 910.0 980.0 1050.0 1120.0 1190.0	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0		400.0 480.0 560.0 640.0 720.0 800.0 880.0 960.0 1040.0 1120.0	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	0.0 70.0 1260.0	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	
6 4 7 4 8 1 9 6 1 1 1 1 1 1 1 1	420.0 490.0 560.0 630.0 700.0 770.0 840.0 910.0 980.0 1050.0 1120.0 1190.0	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0		480.0 560.0 640.0 720.0 800.0 880.0 960.0 1040.0 1120.0	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0 0.0 0.0 0.0	540.0 630.0 720.0 810.0 900.0 990.0 1080.0 1170.0 1260.0	0.0 0.0 0.0 0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0 0.0 0.0 0.0
7 4 8 3 9 6 10 11 12 8 13 14 15 16 17 11 18 13 14 20 14 22 15 23 16 27 18 26 18 27 18 28 19 26 30 23 31 23 32 32 3	490.0 560.0 630.0 700.0 770.0 840.0 910.0 980.0 1050.0 1120.0 1190.0	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0		560.0 640.0 720.0 800.0 880.0 960.0 1040.0 1120.0	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0 0.0 0.0 0.0	630.0 720.0 810.0 900.0 990.0 1080.0 1170.0 1260.0	0.0 0.0 0.0 0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0 0.0 0.0
8 3 9 6 10 11 12 8 13 14 15 16 17 11 18 12 14 22 15 23 16 24 16 25 17 26 18 27 18 29 20 30 23 31 24 32	560.0 630.0 700.0 770.0 840.0 910.0 980.0 1050.0 1120.0 1120.0	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0		640.0 720.0 800.0 880.0 960.0 1040.0 1120.0	0.0 0.0 0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0 0.0 0.0	720.0 810.0 900.0 990.0 1080.0 1170.0 1260.0	0.0 0.0 0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0 0.0
9 6 10 11 12 13 14 15 16 17 1 18 12 14 22 15 24 16 25 17 26 18 27 18 28 19 20 30 23 31 23 32	630.0 700.0 770.0 840.0 910.0 980.0 1050.0 1120.0 1120.0	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0 0.0 0.0 0.0		720.0 800.0 880.0 960.0 1040.0 1120.0	0.0 0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0 0.0	810.0 900.0 990.0 1080.0 1170.0 1260.0	0.0 0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0
10 1 1 1 1 1 1 1 1	700.0 770.0 840.0 910.0 980.0 1050.0 1120.0 1120.0 1260.0	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0 0.0 0.0 0.0		800.0 880.0 960.0 1040.0 1120.0 1200.0	0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0	900.0 990.0 1080.0 1170.0 1260.0	0.0	0.0
11 3 12 8 13 9 14 9 15 10 16 13 17 13 18 13 20 14 21 14 22 15 23 16 24 16 25 13 26 18 27 18 28 19 30 23 31 21 32 22	770.0 840.0 910.0 980.0 1050.0 1120.0 1190.0	0.0 0.0 0.0 0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0 0.0 0.0		880.0 960.0 1040.0 1120.0 1200.0	0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0	990.0 1080.0 1170.0 1260.0	0.0	0.0
12 8	840.0 910.0 980.0 1050.0 1120.0 1190.0	0.0 0.0 0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0 0.0 0.0		960.0 1040.0 1120.0 1200.0	0.0 0.0 0.0	0.0 0.0 0.0	1080.0 1170.0 1260.0	0.0	0.0
13 9 14 9 15 16 17 1 18 12 14 22 15 24 16 25 17 26 28 29 20 20 30 21	910.0 980.0 1050.0 1120.0 1190.0	0.0 0.0 0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0		1040.0 1120.0 1200.0	0.0	0.0	1170.0	0.0	0.0
14 9 15 16 17 1 18 12 14 22 15 24 16 25 17 26 18 27 18 29 20 30 21 31 22 31 22 32 32 32 32 32 32 32 32 32 32 32 32 32 32 32 32 32 32 32 32 32 32 32 32 32 32 32 32 32 32 32	980.0 1050.0 1120.0 1190.0	0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0		1120.0	0.0	0.0	1260.0	0.0	
15 10 16 17 18 12 19 12 14 16 18 19 10 10 10 10 10 10 10	1050.0 1120.0 1190.0 1260.0	0.0 0.0 0.0 0.0	0.0		1200.0		•	•	•	0.0
16 11 17 11 18 12 12 12 14 16 12 17 16 17 17 17 17 17 17	1120.0 1190.0 1260.0	0.0 0.0 0.0	0.0	İ	•	0.0	1 001	11350 0	1 0 0	
17 1 18 12 19 13 14 16 16 16 16 16 16 16	1190.0 1260.0	0.0	0.0	- 1	1280.0			•	•	0.0
18 12 19 10 10 10 10 10 10 10	1260.0	0.0		Ш		0.0		1440.0	0.0	0.0
19 12 14 20 14 22 15 23 16 25 17 18 27 18 28 19 20 30 22 31 22 32 32 32 32 32] {} (1		1360.0	0.0		1530.0		0.0
20 14 21 14 22 15 16 16 16 16 16 17 16 17 17	13311 !! :		•		1440.0	0.0		1620.0	0.0	0.0
21 14 22 15 23 16 24 16 25 17 18 27 18 28 19 29 20 30 23 31 23 32 22 32 22 32 22		0.0	•		1520.0	0.0	:	1710.0	0.0	0.0
22 19 23 16 24 16 25 17 26 18 27 18 28 19 29 20 30 23 31 23 32 22	1400.0	: :	•		1600.0	0.0		1800.0	0.0	0.0
23 16 24 16 25 17 26 18 27 18 28 19 29 20 30 27 31 21 32 22	1470.0	0.0	•		1680.0	0.0		1890.0		0.0
24 16 25 17 26 18 27 18 28 19 29 20 30 23 31 23 32 22		0.0			1760.0	0.0		1980.0	•	
25 17 26 18 27 18 28 19 29 20 30 27 31 27 32 22		0.0			1840.0	0.0		2070.0	•	0.0
26 18 27 18 28 19 29 20 30 21 31 21	1680.0			-	1920.0	0.0		2160.0		0.0
27 18 28 19 29 20 30 21 31 21	1750.0				2000.0	0.0		2250.0		0.0
28 19 29 20 30 21 31 21 32 22					2080.0	0.0		12340.0		0.0
29 20 30 21 31 21 32 22		0.0 0.0			2160.0 2240.0	0.0		12430.0		0.0
30 21 31 21 32 22		0.0			2320.0	0.0 0.0		2520.0 2610.0	0.0 0.0	0.0 0.0
31 21 32 22	2100.0	0.0			2400.0	0.0		12700.0	0.0	0.0
32 22	2170.0	0.0			2480.0	0.0		12700.0	0.0	0.0
					2560.0			2880.0	•	
1.4	2310.0	0.0			2540.0 2640.0	0.0		2970.0		0.0
	2380.0				2720.0	•		3060.0		0.0
	2450.0				2800.0			3150.0		0.0
	2520.0				2880.0	;		3240.0		0.0
37 25				: :	2960.0	•		3330.0		0.0
				: :	3040.0			3420.0		0.0
39 1 27		0.0			3120.0			3510.0	•	0.0
45 28	660.0	0.0			. ,			3600.0		0.0
+	2660.0 2730.0						+	· 	+ -	
t oasi	2660.0 2730.0 2800.0						L _ +	+	4	

F - FEEGUENCY HZ SFT: - SOUND PRESSURE LEVEL DB RE 2E-5 PA

SELA - A-WEIGHTED SOUND PRESSURE LEVEL DBA RE 2E-5 PA

MICROPHONE: MP 9 (PITCH ANGLE: 20.7 DEG)

	-	+ 			-	DATA-	POINT /	RUN	-		-	
+	. +-	l IC	-1 /	41	1	l IC	-2 /	42	1	l IC	-3 /	43 +
HN	 -	, F +	SPL	SPLA	 -	F	SPL	SPLA	, 	, F +	SPL	SPLA
1 1	İ	70.0	19.5	-6.7	ļ	•	36.4 0.0	•			42.2 0.0	23.1
2	 	•	0.0 0.0	:	 	:	l 0.0	!	 	!	0.0	0.0 0.0
3	i	•	0.0	:		•	0.0		1		0.0 0.0	0.0
5	ì	:	0.0	•	1	•	0.0	•		•	0.0	0.0
6	i	:	0.0		i		0.0	:		I	0.0	0.0
1 7	i	•	0.0	:	i	1	0.0	<u>:</u>	; 	•	0.0	0.0
j 8	i	:	0.0		i		0.0	:	İ	•	0.0	0.0
j 9	i	:	0.0	0.0	i	720.0	0.0	:	i	:	0.0	i 0.0 i
10	İ	700.0	0.0	0.0	Ĺ	800.0	0.0	0.0	ĺ	900.0	0.0	0.0
11	I	770.0	0.0	0.0	ĺ	880.0	0.0	0.0	١	990.0	0.0	0.0
1 12	1	840.0	0.0	0.0	l	960.0	0.0	0.0		1080.0	0.0	0.0
13	1	910.0	0.0	0.0	•	1040.0	0.0	•		1170.0	0.0	0.0
14		980.0	0.0	0.0	:	1120.0	0.0	•		1260.0	0.0	0.0
15	•	1050.0	0.0	•	•	1200.0	0.0	•		1350.0	0.0	0.0
•		1120.0	0.0	•	•	1280.0	0.0			1440.0	0.0	0.0
•	•	1190.0	0.0	•	•	1360.0	0.0			1530.0	0.0	0.0
•		1260.0	0.0	•	:	1440.0	0.0			1620.0	0.0	0.0
- 1		1330.0 1400.0	0.0	•		1520.0 1600.0	0.0			1710.0 1800.0	0.0 0.0) 0.0 } 0.0
•		1470.0	0.0	•	•	1680.0	0.0			1890.0	0.0	0.0
		1540.0	0.0	•	•	1760.0	0.0			1980.0	0.0	0.0
•	•	1610.0	0.0	0.0	7	1840.0	0.0			2070.0	0.0	0.0
•		1680.0	0.0	0.0	ĺ	1920.0	0.0			2160.0	0.0	0.0
		1750.0	0.0	0.0	ì	2000.0	0.0			2250.0	0.0	0.0
•	•	1820.0	0.0	0.0	İ.	2080.0	0.0			2340.0	0.0	0.0
27	П	1890.0	0.0	0.0	İ	2160.0	0.0	0.0	1	2430.0	0.0	0.0
28	$ \cdot $	1960.0	0.0	0.0		2240.0	0.0		,	2520.0	0.0	0.0
•		2030.0	0.0			2320.0	0.0			2610.0	0.0	0.0
		2100.0	0.0			2400.0	0.0			2700.0	0.0	0.0
•	, ,	2170.0	0.0	•	•	2480.0	0.0			2790.0	0.0	0.0
		2240.0	0.0			2560.0	0.0			2880.0	0.0	0.0
	0.0	2310.0			: :	2640.0			- :	2970.0		0.0
	: :	2380.0				2720.0 2800.0	_			3060.0 3150.0	:	0.0
•		2450.0 2520.0		•		2800.0 2880.0				3240.0	0.0	0.0
1		2520.0 2590.0				2000.0 2960.0			•	3330.0		0.0
•		2660.0				3040.0	•			3420.0		0.0
•	• •	2730.0				3120.0				3510.0		0.0
•		2800.0				3200.0			•	3600.0		0.0
•		+										+
		SPL						13.9				23.1
+				·	+ +	·			- +	+		+

F - FREQUENCY HZ

SPL - SOUND PRESSURE LEVEL DB RE 2E-5 PA

MICROPHONE: MP 1 (PITCH ANGLE: 21.6 DEG)

HN	F 80.0 160.0 240.0	SPL	+ SPLA +	+-	•	+	194			
1 1 2 1 3 1 4 1	80.0 160.0 240.0	105.5	SPLA +	I					+	
1 1 2 1 3 1 4 1	80.0 160.0 240.0	:			•	SPL	SPLA	•	SPL	SPLA
3 4	240.0	[103.1]	•	1	90.0	1112.0	92.9	Ì]	
1 4 11			89.7	ļ		109.6	98.7		[
: ::	320 0 1	99.8	91.2	ļ	•	•	[101.0]	!		
1 3 11		96.7	:	1		:	1102.3]	
: ::		94.4	89.6	!		•	[100.3]	!	!	
6 1	480.0		88.1	ŀ		•	101.9	1] 1	
7 11	560.0		:	1	•	•	100.4	}	1	
8	640.0	83.3	•	1	:	97.3	96.5	i I	 	
9 - 10 -	720.0 800.0			1	810.0 900.0	98.9 97.7	98.1 97.7	1	!	
	880.0		•	i I	990.0	1 93.9	1 93.9	1	l 	!
1 1 1			-	1	1080.0	90.3	90.3	1) 	
	1040.0			•	1170.0	88.6	89.2	j	! !	:
	1120.0	0.0		•	1260.0	86.4	87.0	i	, 	
	1200.0		0.0	•	1350.0	76.9	77.5	i	İ	
1 1 1	1280.0	0.0			1440.0	77.3	78.3	i	i	
	1360.0	0.0	0.0	İ	1530.0	69.9	70.9	j	İ	
1 18 11	1440.0	0.0	0.0	Ì	1620.0	79.2	80.2		j	
1 19 11	1520.0	0.0	0.0	$\{\cdot\}$	1710.0	72.8	73.8			
	1600.0	0.0		•	1800.0	78.0	79.2	1	{	
1 21 11	1680.0	0.0	0.0		1890.0	66.5	67.7			i
	1760.0	0.0			1980.0	65.9	67.1	1		
	1840.0	0.0			2070.0	46.8	48.0			l
	1920.0	0.0			2160.0	0.0	0.0			ļ
	2000.0	0.0			2250.0	0.0	0.0	!		[
	2080.0	0.0			2340.0	0.0	0.0	!	1	
	2160.0	0.0			2430.0	0.0	0.0]		j
	2240.0	0.0		, ,	2520.0	0.0		1	1	
	2320.0	0.0			2610.0 2700.0	0.0	0.0	1		į.
	2400.0 2480.0	0.0		•	2790.0	0.0		1	 	ļ
	2560.0 2560.0				2880.0				1	!
	2640.0				2970.0		1		l l	1
	2720.0				3060.0	•			1	
	2800.0				3150.0				, 	! !
	2880.0				3240.0		, ,	į	į	į
	2960.0				3330.0	•	0.0	į i	i	ľ
	3040.0				3420.0	•	0.0	İ	i	i
	3120.0 j		0.0		3510.0	0.0	0.0	I i	į	i
					3600.0	•	. ,		ĺ	į
									+	+
					! !			 +	1	ļ

F - FREQUENCY HZ

SPU - SOUND PRESSURE LEVEL DB RE 2E-5 PA

SELA - A-WEIGHTED SOUND PRESSURE LEVEL DBA RE 2E-5 PA

ALLE CONTROL CONTROL CANADAM CONTROL CONTROL CONTROL

MICROPHONE: MP 2 (PITCH ANGLE: 21.6 DEG)

		+			· -	DATA-1	POINT /	RUN				·
+] JC	-1 / :		1] JC	-2 /	194				}
1	HN	F	SPL				SPL	SPLA	1	F	SPL	SPLA
į	1	• •	107.3	•	į	•	113.1	1	ļ			j
ļ	2		107.0	93.6	ļ	:						ļ
1	3	: :	105.0	96.4	1	•	•	102.9	1)
ļ	4		103.8	97.2	ļ	•		109.6	1			!
1	5	•	102.7	97.9	1	•	•	1110.1	1]
-		: :	101.4	98.2	1	•	•	110.3 110.8	1			
-{		560.0 640.0	99.3	96.1	!	•	•	110.8	1			,
l l		640.0	96.3	91.0	1	•		100.3	1]
-[9 10	720.0 800.0	91.8 91.0	90.2	1	,		109.7	1			;]
Î Î	11	800.0 880.J	89.5	88.7	1	•	•	106.6	l I			
1		11 960.0	85.8	85.8	í	•	•	i	1			
ij		1040.0	83.8	83.8	•	•		105.2	l			
i		1120.0	77.4	77.4	•	:	102.9	103.5	í	i		ĺ
i		1200.0	78.1	78.7	•			103.4	i		, 	i
i		1280.0	75.0	75.6	,	1440.0	99.0	100.0	Ĺ			i
i		1360.0	72.4	73.0	•	1530.0	98.0	99.0	j			j
i		1440.0	67.5	68.5	•	1620.0	96.9	97.9	ĺ		i	i
i		1520.0	0.0	0.0	•	1710.0	94.4	95.4	į			
ì		1600.0	0.0	0.0	•	1800.0	93.7	94.9	İ			į
i		1680.0	0.0	0.0	•	1890.0	90.0	91.2	İ			
i		1760.0	0.0	0.0	•	1980.0	89.5	90.7	İ			1
İ	23	1840.0	0.0	0.0	ĺ	2070.0	87.0	88.2	Ì]
İ	24	1920.0	0.0	0.0	İ	2160.0	84.3	85.5	1			1
Ī	25	2000.0	0.0	0.0		2250.0	82.1	83.4	1			1
1	26	2080.0	0.0	0.0		2340.0	81.7	83.0				1
1	27	2160.0	0.0	0.0	ł	2430.0	80.9	82.2	-	1		
1		2240.0	0.0	0.0	1	2520.0	78.2	79.5	-			
1	•	2320.0	0.0	0.0	1	2610.0	74.8	76.1	1			
		2400.0	0.0	0.0		2700.0	76.8	•	ļ			
ļ		2480.0	0.0	0.0	1	2790.0	76.2	77.5	-			
į		2560.0				2880.0						
ļ		2640.0			•	2970.0	•	•				}
!		2720.0				3060.0	:			l I	ļ	
İ		2800.0				3150.0	•		1			ļ
		12880.0			•	3240.0	:		ļ	ļ	ļ	1
í		2960.0 3040.0		•	•	3330.0	,	•	1	! !	1	<u>'</u>
l		3040.0 [{3120.0			-	3420.0 3510.0			- :			1
ĺ		[3200.0				3600.0			1	ļ		1
1		3200.0 	•			•	•	•	<u>.</u>			! +
+		·									·	+
}	(DASPL	113.2	105.5	1	Į.	124.2	119.8	1			·
+			+	r	+	+	+	+	+	· - 		

F - FREQUENCY HZ

SPL - SOUND PRESSURE LEVEL DB RE 2E-5 FA

INVESTIGATION NOTSE TEST

TOTAL HOLD MP 3 (PITCH ANGLE: 21.6 Pt.))

				DATA -	POINT /	KU's		
i.	i)	C-1 /		JC	-2 / +			
10 g	τ		SPLA			•		SPL SPLA
	1,1	107.2	\$4.7	90.0	112.9	93.8		1
	3 0			180.0		•		
			•	11 270.0		1		
		1174.2		11 350.0	•		11	
				450.0 540.0				
			•	630.0 630.0			1 1	1 1
				11 720.0			1 1	1 1
				1: 810.0			11	
				1 700.5		•	. ;	!!!
				1 990.0		•	1 1	
				111089.9				
				11170.0				
			1 8 + . 3	[[1:50.0]	108.1	100.7	11	
			97.1	1350.0	,105.7	1106.3	į I	
		• . •	82.3	[[1440]]	104.3	1:07.	1.1	1
			1 75.0	H15 U.O	1102.7	110.7	i i	1
		(a) (b) (b) (b)	,	1520.0		1102 2	1.1	
				' 1710.0			· i	
				([1800.0			1	
				[[18 ⁰ ".0]	•		1	!
				1980.0 -		•	1.1	
		-		2070.9 2070.9		•		
		0.0		2169.0 2259.0		•	1	!!!!
		0.5		230.0 2340.0			1	
		1 00	:				T	
		1 1.0	•	1125.0.			. 1	
	0		,	[] 2610 . c		*	11	
	9			27e 6				i
)		,	1 2 290.0				i
	.)			Historia.				i i
	1. 1. 10	1 0.0		11.44				1
				(130cm)				1
				: [3150]:				
		1 0.C	0.0		, it	7.9	11	
		7.0	0.0		. 1	1 77.0		
		17.	fr. t	1,541,31.0	1 7, 0	18.2		
				ti extra es			1	
				(1		1 T
				• •		† 1	*:	
				· ,			•	1
				' • •				
							A Committee of the Comm	The second secon

TON YOUR TOMOTORISE THERE SEED THE RECEIVE FOR RECEEDS PA

MICROPHONE: MP 4 (PITCH ANGLE: 21.6 DEG)

		+ 1		~	-	DATA	 DOINT /	DUN	-			+
		; 				DATA-	POINT /	RUN				1
+	-+	ј јс +	-1 /	193 +	1] JC	-2 / +	194	 +		+	
HN	1	F	SPL	SPLA	ļ	F	SPL	SPLA	<u>.</u>	F	SPL	SPLA
1	i	80.0	107.7	85.2	ì	90.0	114.0	94.9				
2	Į	160.0	106.1	92.7	1	180.0	114.3	103.4	-		į į	1
3		240.0	106.8	98.2	1	270.0	115.2	106.6				!
4	:	-	-	101.9	ļ	_		112.5				
5	:	:	103.6	98.8	1	:	Ĭ	[112.7]	1			
6	:	:	102.0	98.8	ļ	1	:	110.2	ļ			
7	:	1	100.4	97.2	ļ	:	114.4	[112.5]]			
8	•	:	99.5	97.6	!		:	1112.7	!			!
9	•	720.0	96.8	96.0	ļ	:	113.4	112.6	!			
10	Į.		95.9	95.1	ļ	•	112.5	112.5	Į	;		
111	ļ	880.0	93.1	92.3	-	:	109.8	109.8	ļ			
12	- [960.0	90.6	90.6			110.3	110.3	ļ		. !	
13		1040.0	88.5	88.5	!	•		110.8	ļ		1	!
14	1	1120.0	87.2	87.2	•			106.6	!		ļ	ļ
1 15	- 1	1200.0	84.5	85 1	•	•	•	107.8]		1	1
16	- 1	1280.0	78.2	:				106.8	1			!
17		1360.0	78.4	:	•			104.3	:			ļ
18		1440.0	76.1	•				102.5	 		į	į,
1 20		1520.0 1600.0	71.2	72.2 0.0				101.6 100.9	i I)	 	[
21		1680.0	0.0	0.0		1800.0 1890.0	97.2	1 98.4	1	!		
22		1760.0	0.0	0.0		1980.0	94.6	36.4 95.8	i i		!	[
23		1840.0	0.0	•		2070.0	94.6	95.8	 	i 		!
1 24	- 1	1920.0	0.0	0.0		2160.0	92.2	93.4		1	1	
25		2000.0	0.0	0.0		2250.0	89.3	90.6	:	1	!	
26	- 11	2080.0	0.0			2340.0	89.8	91.1	! !	; 1	, ;	1
27	! !	2160.0	0.0			2430.0	87.6	88.9	! 		1	
28		2240.0	0.0			2520.0	87.0	88.3		i		1
29		2320.0	0.0			2610.0	86.2	87.5	i	, 	ı I	!
30		2400.0	0.0			2700.0	84.5	85.8	ĺ	i	i	i
31	ii	2480.0	0.0			2790.0	83.7	85.0		i	i	i
32	ii	2560.0	0.0	0.0	ii	2880.0	84.0	85.2	ĺ	i	į	į
33	- : :	2640.0	0.0			2970.0 j		83.8	Ì	i	i	i
34	ij	2720.0	0.0	0.0	İΪ	3060.0	80.8	82.0		i	i	i
35		2800.0	0.0		Ħ	3150.0	79.8	81.0	ĺ	į	i	i
36		2880.0	0.0			3240.0				i	i	i
37	Ηİ	2960.0	0.0	0.0	H	3330.0	78.1	79.3		į	į	i
38		3040.0	0.0	0.0		3420.0	76.5	77.7		ĺ	j	i
39	11	3120.0	0.0	0.0		3510.0	77.9	79.1				1
•		3200.0				3600.0				l		1
+	-++					+				+	+	+
+			,			·		+		+	+	+
1			114.6					122.6		1	1	1
+			·+	· ·	++	+				+	+	+

F - FREQUENCY HZ SPL - SOUND PRESSURE LEVEL DB RE 2E-5 PA

3 1 5 1 5 1 1 1 1 1 1	30.0 150.0 240.0 320.0	SPL (07.8 105.9 104.0 107.0 103.2 95.4 100.2 98.0 94.2 92.5 89.5	SPLA SPLA	90.0 180.0 270.0 360.0 450.0 540.0 630.0 720.0	SPL 115.6 108.5 116.2 119.4 110.2 112.8 114.0	SPLA	F	+	SPLA
1	30.0 150.0 240.0 320.0 400.0 450.0 569.0 640.0 710.0 800.0 360.0	(07.8 105.9 104.0 107.0 103.2 95.4 100.2 98.0 94.2 92.5 89.5	85.3 92.5 95.4 100.4 98.4 92.2 97.0 96.1 93.4	90.0 180.0 270.0 360.0 450.0 540.0 630.0 720.0	115.6 108.5 116.2 119.4 110.2 112.8 114.0	96.5 97.6 107.6 114.6 117.6	<u></u>	SPL	SPLA
3 1 5 1 5 1 1 1 1 1 1	150.0 240.0 320.0 400.0 450.0 560.0 710.0 810.0 380.0	105.9 104.0 107.0 103.2 95.4 100.2 98.0 94.2 92.5 89.5	92.5 95.4 100.4 98.4 92.2 97.0 96.1 93.4	180.0 270.0 360.0 450.0 540.0 630.0 720.0	108.5 116.2 119.4 110.2 112.8 114.0	97.6 107.6 114.6 107.0			
3 1 5 1 5 1 1 1 1 1 1	150.0 240.0 320.0 400.0 450.0 560.0 710.0 810.0 380.0	105.9 104.0 107.0 103.2 95.4 100.2 98.0 94.2 92.5 89.5	92.5 95.4 100.4 98.4 92.2 97.0 96.1 93.4	180.0 270.0 360.0 450.0 540.0 630.0 720.0	108.5 116.2 119.4 110.2 112.8 114.0	97.6 107.6 114.6 107.0			
3 1 5 1 5 1 1 1 1 1 1	240.0 320.0 400.0 450.0 560.0 710.0 810.0 380.0 06.0	104.0 107.0 103.2 95.4 100.2 98.0 94.2 92.5 89.5	95.4 100.4 98.4 92.2 97.0 96.1 93.4	360.0 450.0 540.0 630.0 720.0	119.4 1110.2 1112.8 1114.0	114.6			
6	400.0 450.0 569.0 640.0 710.0 800.0 880.0	103.2 95.4 100.2 98.0 94.2 92.5 89.5	98.4 92.2 97.0 96.1 93.4	450.0 540.0 630.0 720.0	1110.2 112.8 114.0	107.0			
6	450.0 560.0 640.0 710.0 800.0 880.0	95.4 100.2 98.0 94.2 92.5 89.5	92.2 97.0 96.1 93.4	540.0 630.0 720.0	112.8 114.0			į l	
7	569.0 640.0 710.0 810.0 860.9	100.2 98.0 94.2 92.5 89.5	97.0 96.1 93.4	630.0 720.0	114.0	[10).6		,	
7	569.0 640.0 710.0 810.0 860.9	100.2 98.0 94.2 92.5 89.5	97.0 96.1 93.4	720.0				Ì	
	710.0 810.0 330.0 960	94.2 92.5 89.5	93.4	•		1112.1		Í	
	800.0 330.0 96 .0	92.5 89.5		II eto o	[111.5]	110.5			
	800.0 330.0 96 .0	92.5 89.5		1 810.0	1	108.8		1	
14 1:	11:		1 / 1 . /		109.2	169.2			
14 1:	11:		88.7	190.0	109.9	109.9	· 	į į	
		88.3	88.3	1030.0		1107.0		j i	
×			86.7	1170.0	104.3	104.9		į į	
	1120.0			1260.0	106.5	107.1		i i	
	1.50.0			[1350.J	•	1104.1		i i	
	1.89.3	•	•	•		1101.0		i i	
	. 307.0	•	•	1530 0	•	102.7		i i	
	10.0		,	· · ·	97.2	98.2		į i	
	11.12.0	•			95.1	96.1		i i	
	1-1-1	•		[1800.0	96.8	98.0		i	
	16000.0			1890.0	91.3	92.5		i i	
	1767			1280.0	91.5	72.7			
	1541 (:	2070.0	90.9	92.1			
,	. 0.0			2160.0	87.1	88.3			
				2250.0	87.0	88.3		 	
	1052.0		•	12340.0	84.0	85.3		. !	
	11.00.0				81.6			' '	
				•	82.6			! ! ! !	
					79.2			: ! {	
					1 78.8			1 I	
				2790.0		81.6		!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!	
				12880.0	1			, l l	
				2970.0				1 I	
				3060.0					
				3150.0				;	
				13240.				, ! } !	
			i na	13.0.0	1 74 4	4 7 7 6 1 1 1 4 7 5 6 1 1		ı I ! I	
		1		1 30.30.3				, [
				1				;	
) ! [
			,] / 55 / 6			
			+					•	
			;		1.05	121.0 H		, . 	

MICROPHONE: MP 6 (PITCH ANGLE: 21.6 DEG)

	•	+ 			DATA	-POINT /	RUN			+
+	-+	JC	-1 /	193	J	C-2 /	194	 	+	 ++
HN	1	F	SPL	SPLA	F	SPL	SPLA	F	SPL	SPLA
1	•	1	108.7	•	: :	1116.6		ii I	İ	
1 2	•	•	103.3		180.0 270.0		101.5 105.3		j	
3	:	•	101.5	96.4	270.0 360.0		103.3	 	i	!
5	:	:	96.1	91.3	450.0	103.6	100.4	11	1	
6	:	:	92.6	89.4	540.0		108.2	ii	}	i
7	- :		96.1	•	630.0	1	•	ii	i	i
j 8	ĺ		89.9	88.0	720.0	97.3	96.5	ii	j i	į
9	- 1	720.0	71.5	70.7	810.0	106.6	105.8	11	<u> </u>	
10		800.0	0.0	0.0	900.0	102.7	[102.7	11	!	1
11		•	0.0	0.0	990.0	91.4	91.4	! !		ļ ļ
12	•	960.0	0.0	:	1080.0	100.6	100.6	[]		
13	•	1040.0	0.0	•	1170.0	94.5	95.1	}		
14	•	1120.0 1200.0	0.0 0.0	:	1260.0 1350.0	87.6 95.2	88.2 95.8	{	i I	
15		1280.0	0.0	•	1440.0	87.3	88.3	1 1 1 1	! !	· I
1 17		1360.0	0.0	•	1530.0	82.0	83.0	11	!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!	i
18		1440.0	0.0	•	1620.0	85.0	86.0	ii	i i	í
19	- 1	1520.0	0.0	•	1710.0	80.2	81.2	i i	j j	į
20		1600.0	0.0		1800.0	81.6	82.8	i i	İ	İ
21	Ì	1680.0	0.0		1890.0	79.9	81.1	İİ	İ	İ
22	-	1760.0	0.0		1980.0	70.6	71.8			
23	•	1840.0	0.0		2070.0	77.2				ļ
24		1920.0	0.0	•	2160.0	71.1	72.3			ļ
25		2000.0	0.0	0.0	2250.0	68.7	70.0			ļ
26		2080.0	0.0	•	2340.0	72.5	73.8			!
27	•	2160.0 2240.0	0.0 0.0		2430.0 2520.0	54.5	55.8 0.0]] !	
29		2320.0	0.0		[2610.0	0.0	0.0		 	i
30		2400.0	0.0	•	2700.0	0.0	0.0	ii	,	i
31		2480.0	0.0	•	2790.0	0.0	i 0.0 i	i i	i	i
•	•	2560.0	0.0	0.0	2880.0	•	0.0	i i	İ	j
33	-	2640.0	0.0	0.0	2970.0	0.0	0.0			1
	- :	2720.0			3060.0	0.0	: :			1
•	•	2800.0		•	3150.0	0.0	0.0	!!	ļ	!
		2880.0		:	3240.0	0.0	0.0			!
•	•	2960.0		•	3330.0	0.0		: :		
		3040.0 3120.0			3420.0 3510.0	0.0	•	:		!
•	•	3200.0			3600.0		•	•		1
					3000.0 +			· · ++		! +
								++		+
		ASPL				121.5				1
+			}	+	++	-+	+	++	- +	+

F - FREQUENCY HZ

SPL - SOUND PRESSURE LEVEL DB RE 2E-5 PA

THE PROPERTY NOTSE TEST

TO SECTION OF THE CONTRACTOR OF SECTION (PITCH ANGLE $|\mathcal{Q}\rangle$) and $|\mathcal{Q}\rangle$

:			DATA-	TOINT /			
JC	5-1 /		!	2-2 /		 1	L
			j j	1 SFL	SPLA	SPL	SPL
		78.2	1; 90.0	1115.8	96.7	 1	
1,50.0	1 0.0	0.0	180.0	0.0	0.0	1	İ
.140.0	0.0	0.0	11 270.0	0.0	0.0	Ì	1
710.0	0.0	0.0	1 360.0	1 0.0	1 0.0 11	ł	Į
1000		0.0] 450.0	9.0	[0.0 i]	1	1
4.80.00	0.0	0.0	11 540.0	0.0	0.6 []		ļ
, i , Y	1), 0	0.0	11 520.0	(G.0	! 001	1	
1. 1. 1. 1. 1. 1. 1. 2.	0.0	0.0	11 720.0	0.0	[-0.0]	1	į
1000	0.0	۲,)	11 310.0	0.0	1		1
8 3.0	0.6	0.0	11 900.0	0.0	0 !!		ļ
1.5%),0	0.0	0.0	0.000	0.e	0.0 1	1	!
The second second	(-0.0)	0 0	(1.050.7)	0.00	0.6	1	!
A	(0.0)	0 0	11-170.0	0.0	0.0		
1 10.0		0.0	[11260.0]	j 0.0	0.0	1	;
(11.9.5.0)	0.0	J.U	H130 0	0.0	0.0	!	
P. 17 30.0	1 0.0	0.0	111440.0	0.0	0.0 []		i i
11.0.0	0.9	(0,0)	11130.0	0.0	6.0		ł
14-1-61.3		() , ()	11020.0	1 0.9	1 0.0		i
171510.0		0.0][1710.0	0.0	0.0		!
1. Pett.		0.0	118.00.0	0.0	0.0 []	1	1
1 1 1 1 1 1 1 1 1		0.3	11890.0	0.0	0.0 [[
1 t 61.0		(0,0)	111180.0				
[1340.0			113070.0		0.0 []	1	
- 1320.0	0		112350.5	i 0.0	c.o	1	
· 22.4. 1.30	1 0.0		112255.3			ļ	
170, 0.0	,		1 2 40.0	0.0	0.0 11		
	,		112-30.0			1	
in the state of th			[]2520.0			!	
17 7.3			2610.0	0.0		!	
1.50			112700.0			!	
5 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -			15720.0	0.0		-	
			1128 20 0	0.0	· • •	!	
			112976.0			[
ļ <u>(</u> 2.0	4 0.0	0.5	113060.0	$\begin{bmatrix} 1 & 0 & 0 \end{bmatrix}$	0.0	:	
9.0.0	1 (1.0)	$\partial_+ \partial$	[]3.50.0	1 0 0	0.0		
	1 9.0	1.9	1 (10 0	1 11.0	[-0.0]	1	
	1 6.0	9.0		1 0.0	0.0 1	!	
	0.0	6 9	(, la. 1.0) . 11 :	· 0.0 j	U.U	1	
	The second secon		Markett			1	
					· · •	 1	
				1117		 	
1 \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	100.7	7	1.1			 ļ	

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TOTAL PRESENT BE THE RESIDENCE OF A SECRET STATE OF A SECRET SET OF A SECRET SERVICE OF A SECRET SECRET SERVICE OF A SECRET S

MICROPHONE: MP 9 (PITCH ANGLE: 21.6 DEG)

		!			_	DATA-	POINT /	RUN				+
+		 JC	-1 /	193 +		•	-2 /	194			+	
	HN	F	SPL	SPLA		F	SPL	SPLA		F	SPL	SPLA
į	1	• •	108.4	85.9	į	•	112.6	93.5	İ		į .	
-	2		103.9	90.5	1	•	109.6	98.7	ļ			. !
-1	3	• •	104.5	95.9	ļ	:	116.9	108.3	ļ		!	
 	4 5	• •	106.8 102.3	100.2	1	•	[115.2 [112.1	110.4 108.9	1		[]	
1	6	• •	102.3	97.8	i	<u>.</u>		1111.3	1] i	
1	7	: :	101.6	98.4	i	•	•	111.5	-		! !	;
i	_	640.0	98.2	96.3	¦	!	111.7	: :	i.		<u> </u>	
i	_ :	720.0	94.8	94.0	i	•	:	1111.5	i			i
i	'	800.0	94.3	93.5	i	•	:	109.6	i		i	i
i	:	880.0	93.7	92.9	i	•	:	108.8	i		i	i
i		960.0	89.0	89.0	i	•		110.4	i		j	i
i	13	1040.0	89.9	89.9	İ	1170.0	108.0	108.6	İ			
Ì	14	1120.0	88.2	88.2	ĺ	1260.0	104.9	105.5	ĺ			
-1	15	1200.0	80.8	81.4		1350.0	105.9	106.5	1			
1	16	1280.0	78.5	79.1		1440.0	105.4	106.4	1			
-	17	1360.0	77.8	78.4	•			102.4				ļ
Ţ	18	1440.0	0.0	0.0	•	•	•	102.2	ļ			ļ
	19	1520.0	0.0	0.0	•		100.0	[101.0]			<u> </u>	1
1		1600.0	0.0	0.0	•	1800.0	97.6	98.8	!			' I
ŀ		11680.0	0.0	0.0		1890.0	97.1	98.3	i			!
1		1760.0	0.0	0.0		1980.0	95.6	96.8	-			- !
i		1840.0 1920.0	0.0	0.0		2070.0 2160.0	90.0	91.2 95.7	ŀ			}
i	25	2000.0	0.0	0.0		2250.0	91.2	92.5	i			i
i	26	2080.0	0.0	0.0	- 1	2340.0	86.3	87.6	i			i
i	27	2160.0	0.0	0.0		2430.0	90.0	91.3	i		i	i
i		2240.0	0.0	0.0	- '	2520.0	86.5	87.8	i		İ	i
i	29	2320.0	0.0	0.0	İ	2610.0	84.7	86.0	Ì	Ì	į	i
İ	30 j	2400.0	0.0	0.0		2700.0	86.1	87.4	İ		i j	į
İ	31	2480.0	0.0	0.0		2790.0	83.9	85.2	1		ĺ	İ
1		2560.0				2880.0						1
1		2640.0	-	•	•	2970.0						j
ļ		2720.0		-		3060.0			:	İ		İ
ļ		2800.0				3150.0					<u> </u>	!
ļ		2880.0				3240.0						
ļ	,	2960.0				3330.0			1			1
ļ		3040.0 3120.0	,			3420.0 3510.0						ļ
ı		3120.0							1			1
+	•		•								ı	 +
+		· ·	+						-			+
ı	C	ASPL	113.7	106.8	П		124.1	121.3	1	1		1
+											-	

F - FREQUENCY HZ

SPL - SOUND PRESSURE LEVEL DB RE 2E-5 PA

The state of the s

A A STATE OF THE S	MUN			
<i>€</i> 1-2 / 1		1	-3 /	190
22 mg (28 b.)		F	SPL	SPLA
	83.9	1 96.0	: 111.2	92.1
104.3	90.9		109.3	98.4
The state of the s			•	100.9
8 1 2 2 2 2 2 3 4 7 1 1		360.0	106.9	102.1
				100.3
1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1	* 1.3			101.7
				100.3
10 10 10 10 10 10 10 10 10 10 10 10 10 1		720.0	97.1	96.3
		510.0	,	98.2
		900.0	98.1	98.1
\sim		1 990.0	94.1	94.1
		11080.0	91.1	91.1
1 [100 1 0 0 0 0 0 0 0		1170.0 11260.0	87.5 86.9	88.1 87.5
7.7		11350.0	78.1	78.7
		11440.0	78.2	79.2
0.0		1530.0	74.7	75.7
		111620.0	78.4	79.4
		1710.0	75.4	76.4
1. The second of the second of		11800.0	76.5	77.7
\mathbb{R}^{n} . The second of \mathbb{R}^{n} is \mathbb{R}^{n}	0.0	11890.0	60.4	67.6
Alternative Control	0.0	1780.0	66.0	67.2
the state of the s	ö.C	[[2070.0	0.0	0.0
\mathcal{L}_{i} , which is the second of \mathcal{L}_{i} , \mathcal{L}_{i} , \mathcal{L}_{i} , \mathcal{L}_{i}	0.0	[[2:60.0]	0.0	0.0
	0.0	12250.0	0.0	0.0
$\mathcal{O}_{\mathcal{O}}}}}}}}}}$	0.0	1 2340.0	0.0	0.0
		1 2430 0	0.0	0.0
		1 2520.0	0.0	0.0
		112610.0	0.0	0.0
		[12700.0 [[2790.0	0.0	0.0
			0.0	0.0
		2000.0 2970.0	0.0	
		13060.9		0.0
1		13150.0	0.0	0.0
		1246.6	0.0	0.0
		1,3530.0	0.0	0.0
		13520.0	0.0	0.0
. 1	6.0	1)3510.0	0.0	0.0
	- 1	14.600.0		0.0
			+	
	- 1 N			109.8
		44		+

MICROPHONE: MP 2 (PITCH ANGLE: 20.7 DEG)

	-	+ !			-	DATA-	POINT /	RUN							
+	. 4-	 KC-	-1 /			KC	-2 /		KC	-3 / +	 190 1				
HN	-	F	SPL		-		SPL	SPLA	•	SPL	SPLA				
1	į	•	102.3	-		•	109.0		•	112.8	93.7				
2	ļ	!	•	1		•	107.9	: '	•	•	108.6				
3	!	•	97.3	•		240.0	105.2	96.6		110.7	102.1				
4	ļ	280.0	93.1	84.5		320.0	102.9	96.3	· .	1113.7	[108.9]				
5	!	350.0	86.1	79.5	1	400.0	102.5	97.7		1113.4	110.2				
6	ļ	•	84.2	79.4	1	480.0	100.6	97.4	•	•	110.4				
7	ı	490.0	81.9	78.7		560.0	98.4	95.2	•	112.3	110.4				
8		•	78.3	75.1	!	640.0	94.6	92.7	•	•	108.1				
J 9	}	•	71.4	69.5	1	720.0	90.3	89.5	810.0	-	1109.4				
10		700.0	66.2	64.3		800.0	90.1	89.3	•	•	1109.6				
11			62.6	61.8 59.0	ļ	880.0	87.4 84.4	, ,	•	•	106.4 106.0				
•	1	•	59.8 0.0	•	1	960.0 1040.0	80.4	:	•	•	105.3				
:	i	•	•		•	1120.0	75.1		•	•	103.6				
•	•	•	•	_	•	•	•		•	•	103.4				
•															
•	•	•	•	:	•	•	•		•	:	100.0 98.6				
18	•	1260.0	0.0		•	1440.0	65.5		1620.0	96.9	97.9				
•	•	1330.0	0.0		•	1520.0	62.9	: :	1710.0	94.5	95.5				
•		1400.0	0.0	:	•	1600.0	57.8		1800.0	93.2	94.4				
	-	1470.0	0.0	•	•	1680.0	0.0	•	1890.0	89.6	90.8				
•	•	1540.0	0.0	•	•	1760.0	0.0		1980.0	89.5	90.7				
•	•	1610.0	0.0	:	•	1840.0	0.0		2070.0	86.5	87.7				
•		1680.0	0.0		•	1920.0	0.0		2160.0	83.6	84.8				
•	•	1750.0	0.0	-	•	2000.0	0.0		2250.0	82.8	84.1				
•	•	1820.0	0.0		•	2080.0	0.0		2340.0	80.6	81.9				
27	Ĺ	1890.0	0.0	0.0		2160.0	0.0	0.0	2430.0	78.7	80.0				
28	İ	1960.0	0.0	0.0	ĺ	2240.0	0.0	0.0	2520.0	76.7	78.0				
29		2030.0	0.0	0.0	Ĺ	2320.0	0.0	0.0	2610.0	75.8	77.1				
30	1 :	2100.0	0.0	0.0		2400.0	0.0	0.0	2700.0	75.8	77.1				
		2170.0	0.0	•	•	2480.0	0.0		2790.0	73.4	74.7				
32	11	2240.0				2560.0			2880.0		72.1				
•	- 1	2310.0				2640.0			2970.0						
•	1 1	2380.0		-		2720.0			3060.0						
•		2450.0			•	2800.0			3150.0		•				
•		2520.0			•	2880.0		: :	3240.0						
•		2590.0	_			2960.0			3330.0	-					
•		2660.0			•	3040.0			3420.0						
•		2730.0		_		3120.0			3510.0	•	0.0				
		2800.0							3600.0		0.0				
									+						
									+						
									+						

- FREQUENCY HZ

PROPERTY AND SERVICE AND SERVI

SPL - SOUND PRESSURE LEVEL DB RE 2E-5 PA SPLA - A-WEIGHTED SOUND PRESSURE LEVEL DBA RE 2E-5 PA

CONTRACTOR SESSESSES PRODUCTS

, * - 1	$\chi_{ij}^{\prime\prime}$: $i = i - j - \frac{1}{2}$)	j
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•	1 500	Salat i
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er er er er var er		11.0
		1.1.5
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		11.8
		11.2
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	·	57.4 98.7
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		7.2
	(0.0, 0.0) + (0.0, 0.0) + (9.0, 0.0)	□.4
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		5.5
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	11 - 21 - 121	1.8
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MICROPHONE: MP 4 (PITCH ANGLE: 20.7 DEG)

	-	DATA-POINT / RUN											
+	+	KC:	-1 /	192	 -	KC	-2 /	191	 -	KC	-3 / +	190 +	
HN	1	F	SPL	SPLA	 -	F	SPL	SPLA		F	SPL	SPLA	
1 1 2		•	107.2		 	:	113.5	91.0		•	113.5 113.8	94.4 102.9	
1 3	1	210.0	97.3		i	:	•	101.1	ì	•	114.3		
4	ì	280.0	96.7	88.1	i	320.0	•	100.9	j	•	117.2		
	j		92.7	86.1	i	•	104.7	99.9	<u>'</u>	•	115.5	•	
i 6	i	420.0	88.2	83.4	i	•	102.3	99.1	i	•	•	109.9	
: _	i		83.8		i		99.9	96.7	i	•	:	112.1	
8	i		81.6	i -	i		99.0	97.1	i	•	1	112.5	
į 9	į		77.8	75.9	į	720.0	95.4	94.6	İ	810.0	1	1112.4	
10	İ	700.0	72.1	70.2	j	800.0	94.9	94.1	İ	900.0	112.2	112.2	
11	İ	770.0	69.2	68.4	ĺ	880.0	92.4	91.6	l	990.0	109.8	109.8	
12	1	840.0	67.0	66.2	١	960.0	90.4	90.4	ĺ	1080.0	110.1	110.1	
13	1	910.0	59.8	59.8	•	1040.0	86.8	86.8	l	1170.0	110.1	1110.7	
14	1	980.0	0.0	•	•	1120.0	85.8	85.8	ļ	1260.0	105.9	1106.5	
•	•	1050.0	0.0	•	•	1200.0	82.9	83.5				107.5	
16	•	1120.0	0.0	•	•	1280.0	78.1	,	•	•	•	106.8	
•	•	1190.0	0.0	:	•	1360.0	76.9	-	•	•	-	104.3	
•		1260.0	0.0	:	•	1440.0	75.2	•	•	•	-	102.5	
•	•	1330.0	0.0	•	•	1520.0	71.7	-	•	-	:	101.5	
•	•	1400.0	0.0	•	•	1600.0	67.8	:	•	1800.0	:	100.6	
•	-	1470.0	0.0	•	•	1680.0	66.6	:	•	1890.0	97.1	98.3	
•	•	1540.0	0.0	•	•	1760.0	64.6	•	•	1980.0	93.9	95.1	
•		1610.0 1680.0	0.0	•	•	1840.0 1920.0	62.7 58.0	63.9 59.2		2070.0	94.2	95.4 92.7	
•	•	1750.0	0.0	•	•	2000.0	55.8	•	•	2160.0 2250.0	89.1	90.4	
•		1820.0	0.0	•	•	2080.0	0.0	•	•	2340.0	88.8	90.4	
•	•	1890.0	0.0	•	•	2160.0	0.0		1		87.0	88.3	
•	•	1960.0	0.0			2240.0	0.0	•		2520.0	85.9	87.2	
•		2030.0	0.0			2320.0	0.0	•	•	2610.0	85.6	86.9	
•	•	2100.0	0.0	•	•	2400.0	0.0	•	•	2700.0	83.7	85.0	
•	•	2170.0	0.0			2480.0	0.0	•	•	2790.0	83.1	84.4	
•		2240.0	0.0	•	Ĺ	2560.0	0.0	•	•	2880.0	84.0	85.2	
		2310.0	0.0			2640.0	0.0			2970.0	81.5	82.7	
34		2380.0	0.0	0.0		2720.0	0.0	0.0		3060.0	81.0	82.2	
•	•	2450.0	0.0	0.0	1	2800.0	0.0			3150.0	79.6	80.8	
36		2520.0	0.0	0.0	l	2880.0	0.0			3240.0	81.0	82.2	
•		2590.0	0.0			2960.0	0.0	•		3330.0	78.3	79.5	
•		2660.0	0.0			3040.0	0.0	•	: :	3420.0		78.4	
•		2730.0	0.0		•	3120.0	•	•		3510.0		78.3	
•		2800.0			•	3200.0	•	•	•	3600.0		77.2	
1	0.	SPL	109.0	93.9	1		117.3	108.3		İ	125.0	122.4	
+				·	+-+	+	+	+	++	- -	h	++	

F - FREQUENCY HZ

SPL - SOUND PRESSURE LEVEL DB RE 2E-5 PA

MASSIF SACROMS CONTRACTOR MASSISSION

MERCALONE: MP 5 (PITCH ANCHE, 1907 (BR))

1		KC	-1 /	192	į į	V_1	7-2	107	i, r	() = ' y	1 ·)
2	:	F	SPL	SPLA		F	↓ SPL	1 0 LA	11 7	314.	} SPL
2			† 198.4	! 82.2	* * -	30.0	1115 3	1 52 -		1 (111.5	1 55 -
	. <u>.</u>		•							158.6	97.
250.0 96.3 87.7 320.6 140.7 123.1 7a.6 110.6 113.6 123.6 97.9 87.3 400.0 125.6 123.1 120.0 120.1 120.0 120.1 120.0 120.1 120.0 120.1 120.0 120.1 120.0 120.1 120.0 120.1 120.0 120.1 120.0 120.1 120.0 120.1 120.0 1	,		•	•							
1			1			5201.0	,				1113.
1 220 0 85 9 81 1 0 10 10 1 10 10				87.3	ļι			• .	100	11111	1100.
1			85.9	81.1		(1)() t	1.		1	. 11 1.00	1128.1
	:	41.0.0	.0.1	75.0		Seb. 1	1.3		1.		11.1.
		1: 5 50.0	79.6	76.4		5 4.4.0	977				Har.
1			75.5	! 73.6	H	721 4	4				
100 100			70.7	68.8	i	800.0	1 9 1	, 1	4 9000	1100.0	1109.4
SAGO 67.0 62.2 360.			65.1	64.3		880. ·-	1 89.5	4	· · · · · · · · · (.	109.6	1739.6
2			65.0	52.2		depth.			1 1 19 1	. [105.3]	1 30.0
2		, 1 110 0	50.2	3n.2		gao is	7: 1	$1 \leq \frac{1}{\sqrt{\kappa}} \leq 2 \leq$	1 1	104 3	11 4.
1130.0 0.0 0.0 (1.36). 77.9 1. 17.5 6 135.5 161.5 1490.0 0.0 0.0 (1.40). 74.3 1.0 117.5 76.5 107.5 1260.0 0.0 0.0 (1.40). 74.3 1.0 117.5 95.0 96.1 1400.0 0.0 0.3 17.7 1.0 1.0 1.7 1.0 1.7 1.0 1		980.0		0.0		1.25	31-1	100			1167.
1190.0 0.0 0.0 1100.2 74.3 0.0 1100.2 76.5 102. 11260.0 0.0 0.0 14460.8 1288 71. 1450.0 0.0 0.0 1260.2 0.0 1270.2 0.0 1710.8 95.0 96.1 1460.0 0.0 0.0 12680.8 69.2 69.2 1269.8 129.2 129.9 92.1 1470.0 0.0 0.0 12680.8 69.2 69.2 129.2 129.3 129.9 92.1 1470.0 0.0 0.0 12680.8 69.2 69.2 129.2 129.3 129.9 92.1 1470.0 0.0 0.0 12880.8 69.2 69.2 129.2 129.3 129.9 92.1 129.0 0.0 0.0 12880.8 69.2 69.2 129.2		1.350.0	0.0	0.0		20.303	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1			1/3.1	1:03.3
		:1120.0	0.0					i ,	12.00	1 1 1 1 1 1 4 1	[161]
1310.0 0.0 0.0 1.00 1.00 0.0 1.10 0.0 0.0 1.10 0.0 0.0 0.0 1.10 0.		[];90.0	0.0	(*)	113	St 0. 3	14.0	! "	3111 000	` , 'C'.5	107.1
1460.0 0.0 0.0 1700.0 0.0 1710.0 95.0 96.0 1460.0 0.0 0.0 1660.0 0.0 0.0 1660.0 0.0 1710.0 95.0 97.5 97.0 14470.0 0.0 0.0 1680.0 89.7 80.7 1890.0 190.9 92.0 1840.0 0.0 0.0 1760.0 0.0 0.0 1900.0 191.3 92.0 1810.0 0.0 0.0 11840.0 0.0 0.0 11840.0 0.0 12070.0 96.1 97.0				0.0		40.3	1000		That do	1 4 7 3	9/1
1460.0 0.0 0.0 1660.0 0.0 1 1 1 1 1 1 1 1 1		0.015	0.0					1. 60 1.	1121011	- + 93 a	96.
1940.0 0.0 0.0 1760.0 0.0 1970.0 91.3 92.5 1910.0 0.0 0.0 1980.0 91.5 92.5 93		11400.0	(7.1)				1 1 2	1 102 1	1 1 1 2 2	er all the	1 47.
1940.0 0.0 0.0 1760.0 0.0 1970.0 91.3 92.5 1910.0 0.0 0.0 1980.0 91.5 92.5 93	:	1470.0	0.0	0.0	1	6801.6	1,9 2	1	111518 1	1 45 9	1 92.1
1750.0			0.0	9.0		7to E. O	9.0	$t = \eta \cdot \alpha$	(1950).	41.5	92.7
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	i	1510.0	().()	0.6	j i 1	350	() ()		,12070.0	Same of the	1 03.2
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	11.	(1580.0	0.0	0.0	; ! ·	9.9 0	0.0	1000	1 11	85.9	1 87.1
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$		[1750.0]	0.0	0.0	1:	uccin	0.0		1	86.1	87.4
$\begin{array}{c c c c c c c c c c c c c c c c c c c $		1820.0	0.0	0.0	H:	Man, c	1 0 0	(j - i	1,411,000.0	84.4	1 85.7
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$		1:1890.0	0.0	0.0	i:	160,0	! () ()	$1 \leq (1 \leq \chi)^{-1}$	1-2- 3-6	7 1	₹ 80.8
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$		(1960.0	0.0	0.0	112	240 C	1 1	100	STORY WAR	F 52.0	, 83.1
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	1.44	1]2030.t	0.0	0.0	11:	0.027	1 0.0	i v	The state of	77.9	79.2
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$;	1,2100.0	0.0	0.0	1:	400.4	(0,0)			•	79.8
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$, i	112170.0	0.0	0.0	11:	480.0	(0	{ C	441 14	78.7	; 80.0
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$								•			79.2
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	1.7	12310.0	0.0								
56. [1520.0] [0.0] [0.0] [0.883.9] [0.0]											
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$											
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$											
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$											
6.04(2800.0) + 6.00 + 0.00 + 0.00 + 0.00 + 0.00 + 0.00											
لتناوف والمنافرة والمراج والمراج والمراج والمنافر والمنافرة والمنافرة والمنافرة والمنافرة والمنافرة والمنافرة											

F FREQUENCY RZ

SAN - SOUND PRESSURE LEVEL Described to a second Second Sound to the second Sec

MICROPHONE: MP 6 (PITCH ANGLE: 20.7 DEG)

		+			-	DATA-	POINT /	RUN	-			
+	+	KC	-1 /	192	1	KC	-2 /			∤ KC	-3 /	190
H	N	F	SPL	SPLA			SPL	SPLA		· ·	SPL	SPLA
•	1	•	108.6	•	İ	:	116.2	•		•	1115.0	95.9
•	2	•	101.5	85.4	!	•	1110.2	•	ļ	•	1110.9	1100.0
•	3	•	93.9	83.0	ļ	•	107.0	98.4	1	•	112.8	104.2
•	4		93.5	84.9	ļ	•	•	100.1	ļ	360.0	•	107.3
	5	•	88.3	81.7	ļ	•	101.2	•		•	•	99.9
:	6	•	81.1	76.3	!	480.0	93.2	90.0	ļ	•	110.5	1107.3
•	7	•	75.2	72.0	1	•	97.2	•	ļ	•	•	1106.0
•	8		75.7	72.5		•	93.3	•	ļ	•	•	94.8
:	9	•	71.1	69.2	1	•	83.5	•	1	•	•	105.1
:	0	:	60.6	58.7	-	•	87.3	1	ļ	:	•	102.3
1	. :		0.0	0.0	1	•	81.8	-	ļ		90.8	90.8
•	2	•	0.0	0.0	ļ	960.0	74.8	•	•	•	•	100.4
1	. :	!	0.0	0.0	•	1040.0	67.5	•	•	1170.0	94.0	94.6
1		980.0	0.0	0.0	•	1120.0	73.2	:	:	1260.0	86.4	87.0
1		1050.0	0.0	0.0	•	1200.0	53.2	•	-	1350.0	94.9	95.5
1		1120.0	0.0	0.0	-	1280.0	0.0	•	•	1440.0	85.8	86.8
1	,	11190.0	0.0	0.0	•	1360.0	0.0	•	•	1530.0	82.9	83.9
1		1260.0	0.0	0.0	•	1440.0	0.0	•	•	1620.0	84.4	85.4
1		1330.0	0.0		•	1520.0	0.0		:	1710.0	80.7	81.7
2		1400.0	0.0	0.0	•	1600.0	0.0	•	•	1800.0	81.0	82.2
2		1470.0	0.0	0.0		1680.0	0.0		: :	1890.0	78.8	80.0
2	•	1540.0	0.0	0.0	•	1760.0	0.0	•	•	1980.0	70.8	72.0
2		1610.0	0.0		•	1840.0	0.0	•		2070.0	76.1	77.3
2		11680.0	0.0		•	1920.0	0.0	:	: :	2160.0	68.6	69.8
1 2.		1750.0	0.0	0.0	•	2000.0	0.0	•	: :	2250.0	67.9	69.2
2		1820.0 1890.0	0.0	0.0 0.0	•	2080.0 2160.0	0.0 0.0	•		2340.0 2430.0	71.5 61.6	72.8 62.9
1 2		1960.0	0.0 0.0	0.0		2240.0	0.0	•		2520.0	0.0	0.0
1 2		2030.0	0.0	0.0	•	2320.0	0.0			2610.0	0.0	0.0
1 3		2100.0	0.0	0.0		2400.0	0.0	•	•	2700.0	0.0	0.0 0.0
1 3		2170.0	0.0			2480.0	0.0	•		2790.0	0.0	0.0
•	•	2240.0	•			2560.0	•			2880.0		
		2310.0				2640.0				2970.0		
3		2380.0				2720.0		•		3060.0		0.0
3		2450.0				2800.0	•			3150.0	0.0	0.0
•		2520.0				2880.0		•		3240.0	0.0	0.0
•		2590.0				2960.0				3330.0	0.0	0.0
•		2660.0				3040.0				3420.0	0.0	0.0
•		2730.0	0.0			3120.0	•			3510.0	0.0	0.0 I
•		2800.0	•		•	3200.0		•		3600.0	0.0	0.0
		+										
+												
1		ASPL										114.3
+			+		++			+	+ -+		+	++

F - FREQUENCY HZ

SPL - SOUND PRESSURE LEVEL DB RE 2E-5 PA

MICROPHONE: MP 7 (PITCH ANGLE: 20.7 02G)

HN	- +- - +-	KC	-1 /	192	1.1 (7.2)					İ	
+	- ÷ -	F			KC	-2 / +	191 :	1 80	; / 193		
	i		SPL	SPLA		SPL	SPLA	F	SPL	SPLA	
1		70.0	105.0	•	•		90.2 [•		
2	•	•	94.2	•		105.0	91.6			0.0	
3	-	•	86.8	•		[103.3	94.7			0.0	
4		•	•			90.8	84.2				
5	ļ		•	,	400.0	90.1	85.3		1	!	
6	ļ	•	•	•	480.0	78.4	3.2	1 337 0		0.0	
1 7		'	•	•	560.0	75.9		for the second			
8		•	•	•	640.0	70.0	67 1	200	•	,	
9	-	•		:	1 720.0	71.8	1		-		
10	-		0.0	•	6.668 	69.9		1 900.0 - 1 900.0 -	•		
11			0.0	0.0	880.0 960.0	68.9		1 950.0			
12			0.0	0.0 0.0		0.0 0.0		1080.0	[0.0 [0.0	. ,	
1 13		910.0 980.0	0.0 0.0	•	[] (040.0 [] 1120.0	1 0.0		f 1170.3 f 1760.0	•	0.0	
1 15	•	1050.0	0.0	•		i 0.0		13350.0	1 0.0	: :	
16		1120.0	•	•	111280.0	0.0		11660			
1 17		1120.0	0.0	•	1360.0	0.0		! 15 35 . ()		• •	
1 18		1260.0	0.0	•	11440.0			16.00	•	•	
$\frac{1}{1}$ 19	,	1330.0	•	•	1520.0	6.0	•	1710.1	0.5	•	
20		1400.0			1600.0			11/00.0	•	,	
21		1470.0	•	:	1680.0	0.0		1890.9	-		
22		1540.0	0.0	•	1760.0	0.0		1280.0		0.9	
23	,	1610.0	0.0		1840.0	0.0	'	1070.0	•	0.4	
24		1680.0	0.0	0.0	1920.0	0.0] [2160.ປ]		0.0	
25		1750.0	0.0	•	2000.0	0.0		2050.0	0.0	0.0	
26		1820.0	0.0	0.0	12080.0	0.0		12340 0	0.0	0.0	
27	1	1890.0	0.0	0.0	2160.0	0.0	0.0	2450.0	0.0	0.0	
28		1960.0	0.0	0.0	2240.J	0.0	0.0	2520.0	0.0	0.0	
1 29		2030.0	0.0	0.0	[[2320.0]	0.0	0.0	2610.0	0.0	0.0	
30	, ,	2100.0	0.0		[[2400.0	0.04		[2700.0]	0.0	0.0	
31		2170.0	0.0		[[2480.0	0.0	•	[2790.0]	0.0	0.0	
		2240.0			2560.0			2530 C	0.0	0.0-1	
•		2310.0			12540.0			12970.0			
•		2380.0			[[2726.0			Brinth (i			
		2450.0			2800_0 -	•		[1130.4.]		9.0	
•		2520.0			[[2880.0]						
		2590.0			2960.6 			3 x 3 x 2 x 2 x 1 		0.0	
		2660.0			3040.0 3120.0						
•		2730.0			3120.0 13200.6						
•	, ,	2800.0			3200.C +						
		SPL					97.0			93.1 +	
					 -						

F - FREQUENCY HZ SPL - SOUND PRESSURE LEVEL DE RE CE-5 PA

SPL: - A-WIIGHTED SOUND PRESSURE LEVEL DRA RE LE 1 PA

THE RESERVE STATES OF THE PROPERTY OF THE PROP

MICROPHONE: MP 9 (PITCH ANGLE: 20.7 DEG)

			DATA-POINT / RUN								
		i I KC	-1 /	192					 KC-3 / 190		
+	HN	+ F	+	+ SPLA	 F	SPL	+ SPLA	 F	SPL	+ SPLA	
+	1	70.0	† 105.2	+ 79.0	80.0	112.5	90.0	 90.0	111.1	92.0	
-	2	140.0	102.1	86.0	160.0	108.9	95.5	180.0	108.8	97.9	
-1	3	210.0	93.2	82.3	240.0	106.1	97.5	270.0	116.4	107.8	
1	4	280.0	97.3	88.7	320.0	108.3	101.7	360.0	114.4	109.6	
١	5	350.0	92.8	86.2	400.0	103.5	98.7	450.0	111.8	108.6	
1	6	420.0	85.9	81.1	480.0	101.3	98.1	540.0	114.2	111.0	
-	7	490.0	81.3	78.1	560.0	101.0	97.8	630.0	112.7	110.8	
- [8	560.0	80.9	77.7	640.0	97.9	96.0	720.0	111.2	110.4	
- [- '	630.0	75.2	73.3	720.0	94.8	94.0	•	112.1	111.3	
ļ		700.0	73.2	71.3	800.0	92.3	91.5	•	109.3	109.3	
ļ		770.0	65.3	64.5	880.0	91.5	90.7	•	108.8	108.8	
ļ		840.0	0.0	0.0	960.0	86.8	86.8		•	110.2	
ļ		910.0	0.0	:	1040.0	85.8			•	108.3	
Ţ		980.0	0.0	:	1120.0	84.5		•	•	105.5	
- [11050.0	0.0	•	1200.0	80.7			:	106.4	
		11120.0	0.0	:	11280.0	77.0	: :	•	•	106.1	
ļ		1190.0	0.0	:	1360.0	74.7		•	•	102.2	
1		1260.0	0.0 0.0	:	1440.0	73.1 71.1	. :	•	:	102.0	
1		1330.0 1400.0	0.0	:	1520.0 1600.0	66.1	. ,	1710.0 1800.0	99.8 97.1	100.8	
	21	1470.0	0.0		1680.0	63.6		1890.0	96.8	98.0 98.0	
!	,	1540.0	0.0	•	1760.0	0.0	:	1980.0	95.3	96.5	
1	•	1610.0	0.0		1840.0	0.0		2070.0	89.1	90.3	
1		1680.0	0.0		1920.0	0.0		2160.0	93.6	94.8	
i	•	1750.0	0.0		2000.0	0.0		2250.0	90.1	91.4	
i		1820.0	0.0	0.0	2080.0	0.0		2340.0	85.2	86.5	
ì	•	1890.0	0.0	0.0	2160.0	0.0		2430.0	88.9	90.2	
ì		1960.0	0.0	0.0	2240.0	0.0		2520.0	85.5	86.8	
í	,	2030.0	0.0	0.0	2320.0	0.0		2610.0	83.6	84.9	
i		2100.0	0.0	0.0	2400.0	0.0	0.0	2700.0	85.0	86.3	
Ť	31	2170.0	0.0	0.0	2480.0	0.0	0.0	2790.0	81.8	83.1	
1	32	2240.0	0.0	0.0	2560.0	0.0	0.0	2880.0	83.4	84.6	
1		2310.0		0.0	2640.0	0.0	0.0	2970.0	82.8	84.0	
1	-	2380.0	:		2720.0	0.0	0.0	3060.0	81.3	82.5	
		2450.0			2800.0	0.0	. ,	3150.0		, ,	
		2520.0	•		2880.0	0.0		3240.0			
١		2590.0	Ī		2960.0		: :	3330.0			
ļ		2660.0			3040.0		:	3420.0	•		
ļ		2730.0			3120.0	•		3510.0	•	•	
1		2800.0			3200.0						
++++++++											
OASPL 107.8 93.2 116.3 107.4											
+											

F - FREQUENCY HZ
SPL - SOUND PRESSURE LEVEL DB RE 2E-5 PA

7. Comments on Data Interpretation

In the preceeding chapters acoustic as-measured data are presented in terms of pressure-time histories and narrow-band spectra for all microphone positions MP 1 to MP 9*.

As stated in the "Executive Report" to this Appendix all data have been analysed regardless of occasional microphone drop-outs or the occurrence of external pressure disturbances which may distort the propeller noise-signature completely.

To avoid erroneous data interpretation, the following list summarizes all those data-points (within the total test-program) which should be deleted with respect to the microphone position indicated:

Microphone Position MP 3:

Delete analyses of Data Points BC-4 BC-5.

Microphone Position MP 6:

Subprogram	Delete analyses of Data Points AN-1,2,3,4,5,7; BN-1,2,3,4,5,6,61,7 BC-1,2,3,4,5,6,61,7					
Basic Program						
Temperature Effect	HN-3; IN-1,2,3; JN-1,2,3; KN-1,2 HC-1,2; IC-1,2,3;					
Attitude Effect	-					
Installation Effect	FNC-7,8,9,10,11,12					

^{*} MP 8 has only been analysed for data points within the "Attitude-effect" test-program.

In addition, noise data acquired at microphone position MP 7 should be interpreted with care for such data-points which combine low propeller rotational speeds with high tunnel flow-velocities. Respective data are often disturbed due to the effects of microphone vibration. In each of these cases the respective averaged pressure-time history and the corresponding level-spectrum should be inspected carefully. If both data representations do not exhibit any periodic behaviour the respective analysis should not be interpreted.

In top of the averaged pressure-time history plot the number of averages as well as the magnitude of "disturbance-pressure- amplitudes" (which have been detected and deleted within the analysed time-interval) are indicated, the latter by ΔP . In case of completely distorted propeller noise signatures, ΔP generally assumes values of 496% (referenced to the minimum peak-to-peak pressure amplitude within the total number of propeller revolutions analysed). If even higher disturbance amplitudes occur, respective data analyses are marked by $\Delta P >$ *** and should be deleted. Lists of harmonic levels in this case often contain just one level-value for the fundamental frequency (HN=1) which then however has no physical meaning.

Therefore, data interpretation should not be solely based on the listing of harmonic levels. In particular, if only one harmonic level at HN=1 is listed, a careful inspection of the respective level-spectrum (as calculated from the averaged time-history) is necessary to ensure the physical relevance of this harmonic level.

Marie Construction of the